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Bibliography.

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Summary.

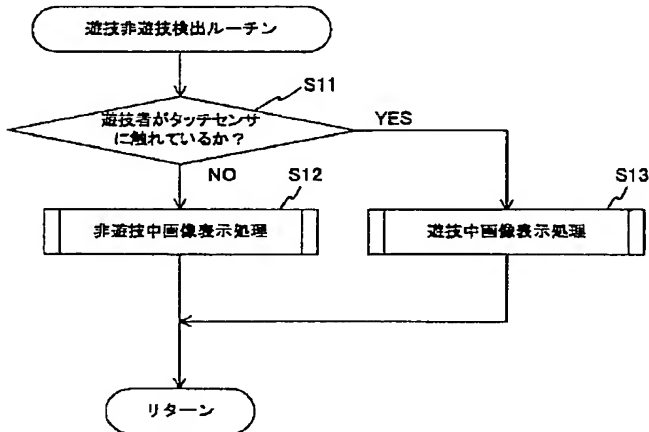
(57) [Abstract] (*****)

[Technical problem] In the thing ignited by a change indication of at least one or more identification information pictures always being given among two or more identification information pictures, and a game sphere carrying out passage or the ON sphere of the position by which a halt indication of the change display identification information picture is always given While a game person enables it to participate in a halt of a change pattern, the pachinko game machine which made it easy to distinguish whether it is among a game for a game person or it was among a non-game is offered. [it]

[Means for Solution] It has the display 32 with which two or more patterns are change-displayed or halt displayed, in display 32, a change indication of at least one or more patterns is always given among two or more patterns, and it shifts to a winning-a-prize state ignited by the game sphere having carried out the ON sphere to the starting mouth 44, and after passing a winning-a-prize change period, a halt indication of the pattern by which it is always indicated by change is given. Under the present circumstances, when a game person is among a game, while a change indication of the identification information picture is always given in display 32, it is

stopped that a change indication of the identification information picture is always given for the game person at the time among a non-game.

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CLAIMS

[Claim(s)]

[Claim 1] Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and it sets to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. Are the pachinko game machine ignited by the game sphere which a game person discharges having carried out passage or the ON sphere of the position with which a halt indication of the change display identification information-always [aforementioned] picture is given, and it sets to

the aforementioned display. While the game person is performing the game in the pachinko game machine concerned and a change indication of the aforementioned identification information picture is always given That a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned is the pachinko game machine characterized by being stopped.

[Claim 2] The pachinko game machine according to claim 1 characterized by displaying the picture which shows that the pachinko game machine concerned is in a vacancy state while the game person is not performing the game in the pachinko game machine concerned.

[Claim 3] The pachinko game machine according to claim 1 or 2 characterized by judging whether the game person is performing the game in the pachinko game machine concerned by whether the touch sensor was formed in the periphery section of the discharge handle which a game person supports in order to discharge a game sphere, and the game person contacted the aforementioned touch sensor.

[Claim 4] Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and it sets to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. Are the control method of the pachinko game machine ignited by the game sphere which a game person discharges having carried out passage or the ON sphere of the position with which a halt indication of the change display identification information—always [aforementioned] picture is given, and it sets to the aforementioned display. While the game person is performing the game in the pachinko game machine concerned and the aforementioned identification information picture always indicates by change The control method of the pachinko game machine characterized by stopping that a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned.

[Claim 5] Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and it sets to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. Are the server which performs the display control of the pachinko game machine ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position with which a halt indication of the change display identification information—always [aforementioned] picture is given, and it sets to the aforementioned display. The server characterized by stopping that a change indication of the aforementioned identification information picture is always given while the game person is performing the game in the pachinko game machine concerned, the aforementioned identification information picture always indicates by change and the game person is

not performing the game in the pachinko game machine concerned.

[Claim 6] Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and it sets to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. Ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position Are the storage with which the program which can perform the control method of a pachinko game machine that a halt indication of the identification information picture by which it is always [aforementioned] indicated by change is given is memorized, and it sets to the aforementioned display. While the game person is performing the game in the pachinko game machine concerned and a change indication of the aforementioned identification information picture is always given It is the storage with which the program which can perform the control method of the pachinko game machine characterized by that a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned making it stop is memorized.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the control method of a pachinko game machine and a pachinko game machine, a server, and a storage.

[0002]

[Description of the Prior Art] In recent years, the slot machine with a game person able to obtain an advantageous game result according to the own game force is very in fashion. Although it is said that this slot machine shifts to a great success game

according to the content of combination of the pattern at the time of stopping three rotating drums which a game person rotates after a medal injection and lever operation by pushing each push button, and stopping The timing of a halt of a rotating drum has started operation of a game person altogether, and in order to stop a rotating drum in a predetermined pattern, a game person performs a game, such as performing the so-called eye push hit and carried out, or changing the turn which a push button pushes, making full use of various game techniques. It is thought that it is one of the factors in which the slot machine is in fashion at the place which makes full use of such a game person's game technique make.

[0003] On the other hand, by performing games, such as an adjustable display game, in display, such as a liquid crystal display panel, in a pachinko game, the interest of the game person who plays a pachinko game was made to maintain, and the attempt which ****s bored and uses a game person as a ** plug has been made. An adjustable display game here is a game which imitated the game made in a slot machine, and is set to a pachinko game machine. It is begun to change each of two or more patterns ignited by the pachinko ball having carried out the ON sphere to the starting mouth, and the pachinko game is played to shift to a great success game when the combination of these patterns stopped automatically turns into a predetermined combination (for example, "7"- "7"- "7").

[0004]

[Problem(s) to be Solved by the Invention] However, in the conventional pachinko game machine, since the pattern currently changed was made as [stop / automatically / not related / with operation of a game person], the game person was able to demonstrate the game force only by carrying out as many ON spheres of the pachinko ball as possible to a starting mouth. For this reason, it is requested that a game person should enable it to participate in a halt of a change pattern positively, i.e., give a game person's technical intervention nature to a pachinko game machine.

[0005] Moreover, after carrying out the ON sphere of the game sphere to a starting mouth, when it is only seeing the pattern stopped automatically, there is also no means by which it changes a game situation by the own force for a game person when a blank game is performed continuously and it will be sensed even by pain in a pachinko game, it is.

[0006] It is also possible to recognize on the other hand, as a pachinko game machine with which a game person can participate in a halt of a change pattern positively, although it is a thing aiming at shortening the change stop time of a pattern in JP,2001-239023,A. Although this pachinko game machine is a thing aiming at shortening the change stop time of a pattern As a pachinko game machine with which a game person can participate in a halt of a change pattern positively The pattern is beforehand indicated by change (the thing of such a change mode is called "regular change"), and a pachinko game machine which is made to stop change of a pattern ignited by the pachinko ball having passed through the predetermined gate

by operation of a game person is proposed.

[0007] However, in such a pachinko game machine, even if it is the case where there are not those who play the game of the pachinko game machine concerned since the identification information picture will always be changed even when he has that no a pachinko ball carries out an ON sphere to a starting mouth, the identification information picture will always be changed and the image display and the analogous picture in the game in the pachinko game machine of a conventional type will be displayed.

[0008] In such a case, the following problems may arise. There are not little those who choose a game machine among those who look for the pachinko game machine which is going to play a game out of the pachinko game machine in an amusement center, checking the state of the obstacle nail on the face of a board of a pachinko game machine. Since the game machine with which the state of an obstacle nail is judged to be good will be looked for gazing at the whole face of a board when such, the display in the face of a board may also go into a field of view inevitably.

Possibility of causing misconception when the identification information picture displayed on the display in the face of a board was always changed, as if the pachinko game machine concerned was among the game arises.

[0009] Furthermore, if it takes as if the pachinko game machine concerned was among the game, since possibility of passing the game machine will arise without checking a game person's existence, the existence of a game person's load, etc., Consequently, possibility of making those who are going to play a game losing an opportunity playing a game with the pachinko game machine concerned arises.

Possibility that a game person can participate in a halt of a change pattern positively and that it becomes impossible for the effect peculiar to a pachinko game machine which always takes a change mode to demonstrate fully will arise.

[0010] this invention aims at offering the pachinko game machine which becomes easy to distinguish whether it is among a game for those who are going to play a game, or it is among a non-game while it is made in view of the **** technical problem mentioned above and a game person enables it to participate in a halt of a change pattern positively.

[0011]

[Means for Solving the Problem] In order to attain the above purposes, the pachinko game machine of this invention In the pachinko game machine ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position with which a halt indication of the change display identification information picture is always given While the game person is performing the game in the pachinko game machine concerned and a change indication of the aforementioned identification information picture is always given in the aforementioned display While the game person is not performing the game in the pachinko game machine concerned, it is characterized by being stopped that a change indication of the aforementioned identification information picture is always

given.

[0012] Enable this to give a game person the feeling of indicating the identification information picture by halt by himself, and also Since it is stopped that a change indication of the identification information picture is always given while the game person is not performing the game in the pachinko game machine, possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who are going to play a game in an amusement center.

[0013] More specifically, this invention offers the following.

[0014] (1) Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and set to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. In the pachinko game machine ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position with which a halt indication of the change display identification information picture is always [aforementioned] given While the game person is performing the game in the pachinko game machine concerned and a change indication of the aforementioned identification information picture is always given in the aforementioned display That a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned is the pachinko game machine characterized by being stopped.

[0015] Only while the game person is performing the game according to invention of (1) mentioned above, the identification information picture is always indicated by change. By making it stop, that a change indication of the identification information picture is always given while the game person is not performing the game (when this pachinko game machine is in a vacancy state) Possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who can make it easy to distinguish and are going to play the game of whether it is among a non-game although a pachinko game machine is among a game in an amusement center.

[0016] (2) The pachinko game machine given in (1) characterized by displaying the picture which shows that the pachinko game machine concerned is in a vacancy state while the game person is not performing the game in the pachinko game machine concerned.

[0017] It stops always indicating the identification information picture by change, while the game person is not performing the game according to invention of (2) mentioned above. By displaying the pictures (for example, calling-in screen etc.) which show that this pachinko game machine is in a vacancy state While being able to make it easier to distinguish, whether for those who are going to play a game, this pachinko game machine is among a game, or it is among a non-game When this

pachinko game machine is among a non-game, possibility that it will be strongly appealable to a game person that there is this pachinko game machine waiting arises (namely, when this pachinko game machine is in a vacancy state). When a "calling-in screen" is displayed as a picture which shows that this pachinko game machine is in a vacancy state especially, possibility that those who are going to play a game can also be tempted arises so that a game may be played with this pachinko game machine.

[0018] (3) (1) characterized by judging whether the game person is performing the game in the pachinko game machine concerned by whether the touch sensor was formed in the periphery section of the discharge handle which a game person supports in order to discharge a game sphere, and the game person contacted the aforementioned touch sensor, or a pachinko game machine given in (2).

[0019] According to invention of (3) mentioned above, possibility that an effect of the invention the above (1) or given in (2) can be obtained arises by judging whether the game person is performing the game by whether the game person contacted the touch sensor formed in the periphery section of a discharge handle, without making operation special to a game person perform.

[0020] In addition, not only the touch sensor formed in the periphery section of a discharge handle as a touch sensor used in order to judge whether the game person is performing the game but the touch sensor with which the parts (for example, seat of a game chair etc.) which can contact automatically [in case a game person performs a game] were prepared is mentioned, and even if it is such a touch sensor, possibility that the same effect as invention of the above-mentioned (3) publication can be acquired arises.

[0021] (4) Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and set to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. In the control method of a pachinko game machine ignited by the game sphere which a game person discharges having carried out passage or the ON sphere of the position that a halt indication of the change display identification information picture is always [aforementioned] given While the game person is performing the game in the pachinko game machine concerned and the aforementioned identification information picture is always indicated by change in the aforementioned display The control method of the pachinko game machine characterized by stopping that a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned.

[0022] Only while the game person is performing the game according to invention of (4) mentioned above, the identification information picture is always indicated by change. By controlling to stop always indicating the identification information picture by change, while the game person is not performing the game (when this pachinko

game machine being in a vacancy state) Possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who can make it easy to distinguish and are going to play the game of whether it is among a non-game although a pachinko game machine is among a game in an amusement center.

[0023] (5) The control method of the pachinko game machine given in (4) characterized by displaying the picture which shows that the pachinko game machine concerned is in a vacancy state while the game person is not performing the game in the pachinko game machine concerned.

[0024] It stops always indicating the identification information picture by change, while the game person is not performing the game according to invention of (5) mentioned above. While being able to make it easier to distinguish, whether by controlling to display the pictures (for example, calling-in screen etc.) which show that this pachinko game machine is in a vacancy state, this pachinko game machine is among a game, or it is among a non-game When this pachinko game machine is among a non-game, possibility that it will be strongly appealable to a game person that there is this pachinko game machine waiting arises (namely, when this pachinko game machine is in a vacancy state). When a "calling-in screen" is displayed as a picture which shows that this pachinko game machine is in a vacancy state especially, possibility that those who are going to play a game can also be tempted arises so that a game may be played with this pachinko game machine.

[0025] (6) (1) characterized by judging whether the game person is performing the game in the pachinko game machine concerned by whether the touch sensor was formed in the periphery section of the discharge handle which a game person supports in order to discharge a game sphere, and the game person contacted the aforementioned touch sensor, or the control method of a pachinko game machine given in (2).

[0026] According to invention of (6) mentioned above, possibility that an effect of the invention the above (4) or given in (5) can be obtained arises by controlling to judge whether the game person is performing the game by whether the game person contacted the touch sensor formed in the periphery section of a discharge handle, without making operation special to a game person perform.

[0027] In addition, not only the touch sensor formed in the periphery section of a discharge handle as a touch sensor used in order to judge whether the game person is performing the game but the touch sensor with which the parts (for example, seat of a game chair etc.) which can contact automatically [in case a game person performs a game] were prepared is mentioned, and even if it is such a touch sensor, possibility that the same effect as invention of the above-mentioned (3) publication can be acquired arises.

[0028] (7) Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and set to the aforementioned display. A change indication of at least one or more identification

information pictures is always given among two or more aforementioned identification information pictures. In the server which performs the display control of the pachinko game machine with which a halt indication of the change display identification information picture is always [aforementioned] given ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position While the game person is performing the game in the pachinko game machine concerned and the aforementioned identification information picture always indicates by change in the aforementioned display The server characterized by stopping that a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned.

[0029] Only while the game person is performing the game according to invention of (7) mentioned above, the identification information picture is always indicated by change. By making it stop, that a change indication of the identification information picture is always given while the game person is not performing the game (when this pachinko game machine is in a vacancy state) Possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who can make it easy to distinguish and are going to play the game of whether it is among a non-game although a pachinko game machine is among a game in an amusement center.

[0030] (8) The server given in (7) characterized by displaying the picture which shows that the pachinko game machine concerned is in a vacancy state while the game person is not performing the game in the pachinko game machine concerned.

[0031] It stops always indicating the identification information picture by change, while the game person is not performing the game according to invention of (8) mentioned above. By displaying the pictures (for example, calling-in screen etc.) which show that this pachinko game machine is in a vacancy state While being able to make it easier to distinguish, whether for those who are going to play a game, this pachinko game machine is among a game, or it is among a non-game When this pachinko game machine is among a non-game, possibility that it will be strongly appealable to a game person that there is this pachinko game machine waiting arises (namely, when this pachinko game machine is in a vacancy state). When a "calling-in screen" is displayed as a picture which shows that this pachinko game machine is in a vacancy state especially, possibility that those who are going to play a game can also be tempted arises so that a game may be played with this pachinko game machine.

[0032] (9) A server (7) characterized by judging whether the game person is performing the game in the pachinko game machine concerned by whether the touch sensor was formed in the periphery section of the discharge handle which a game person supports in order to discharge a game sphere, and the game person contacted the aforementioned touch sensor, or given in (8).

[0033] According to invention of (9) mentioned above, possibility that an effect of

the invention the above (7) or given in (8) can be obtained arises by judging whether the game person is performing the game by whether the game person contacted the touch sensor formed in the periphery section of a discharge handle, without making operation special to a game person perform.

[0034] In addition, not only the touch sensor formed in the periphery section of a discharge handle as a touch sensor used in order to judge whether the game person is performing the game but the touch sensor with which the parts (for example, seat of a game chair etc.) which can contact automatically [in case a game person performs a game] were prepared is mentioned, and even if it is such a touch sensor, possibility that the same effect as invention of the above-mentioned (9) publication can be acquired arises.

[0035] (10) Two or more identification information pictures are equipped with the display by which a change display or a halt indication is given, and set to the aforementioned display. A change indication of at least one or more identification information pictures is always given among two or more aforementioned identification information pictures. Ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position In the storage with which the program which can perform the control method of a pachinko game machine that a halt indication of the identification information picture by which it is always [aforementioned] indicated by change is given is memorized While the game person is performing the game in the pachinko game machine concerned and a change indication of the aforementioned identification information picture is always given in the aforementioned display The storage with which the program which can perform the control method of the pachinko game machine characterized by stopping that a change indication of the aforementioned identification information picture is always given while the game person is not performing the game in the pachinko game machine concerned is memorized.

[0036] Only while the game person is performing the game according to invention of (10) mentioned above, the identification information picture is always indicated by change. By making a program which stops that a change indication of the identification information picture is always given while the game person is not performing the game (when this pachinko game machine is in a vacancy state) memorize Possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who can make it easy to distinguish and are going to play the game of whether it is among a non-game although a pachinko game machine is among a game in an amusement center.

[0037] (11) The storage with which the program which can perform the control method of the pachinko game machine given in (10) characterized by displaying the picture which shows that the pachinko game machine concerned is in a vacancy state while the game person is not performing the game in the pachinko game machine concerned is memorized.

[0038] It stops always indicating the identification information picture by change, while the game person is not performing the game according to invention of (11) mentioned above. By making a program which displays the pictures (for example, calling-in screen etc.) which show that this pachinko game machine is in a vacancy state memorize While being able to make it easier to distinguish, whether for those who are going to play a game, this pachinko game machine is among a game, or it is among a non-game When this pachinko game machine is among a non-game, possibility that it will be strongly appealable to a game person that there is this pachinko game machine waiting arises (namely, when this pachinko game machine is in a vacancy state). When a "calling-in screen" is displayed as a picture which shows that this pachinko game machine is in a vacancy state especially, possibility that those who are going to play a game can also be tempted arises so that a game may be played with this pachinko game machine.

[0039] (12) The storage with which the program which can perform the control method of a pachinko game machine (10) characterized by making it judge whether the game person is performing the game in the pachinko game machine concerned by whether the touch sensor was formed in the periphery section of the discharge handle which a game person supports in order to discharge a game sphere, and the game person contacted the aforementioned touch sensor, or given in (11) is memorized.

[0040] According to invention of (12) mentioned above, possibility that an effect of the invention the above (10) or given in (11) can be obtained arises by making a program it is judged to be whether the game person is performing the game by whether the game person contacted the touch sensor formed in the periphery section of a discharge handle memorize, without making operation special to a game person perform.

[0041] In addition, not only the touch sensor formed in the periphery section of a discharge handle as a touch sensor used in order to judge whether the game person is performing the game but the touch sensor with which the parts (for example, seat of a game chair etc.) which can contact automatically [in case a game person performs a game] were prepared is mentioned, and even if it is such a touch sensor, possibility that the same effect as invention of the above-mentioned (12) publication can be acquired arises.

[0042] The "identification information" concerning [definition-of-term etc. this inventions] means identifiable information by visual senses, such as a character, a sign, a pattern, or a pattern (pattern). Moreover, the picture which indicates this identification information picture to be an "identification information picture" is said. This identification information picture is equivalent to the picture of the pattern mentioned later.

[0043] Moreover, it says setting "a display" in the state where an identification information picture may be checked by looking by the game person. Moreover, a "display" is a concept also containing display, such as a liquid crystal display (the

LCD panel is called hereafter) which displays [change-] and displays [halt-] the movable object of the drum object with which the identification information picture like **** is displayed, and the identification information picture was drawn on the front face, a reel object, etc., and not only these but an identification information picture, and the Braun tube.

[0044] In moreover, when [the case where "a change display" changes into the pattern "8" which is the identification information of others / pattern / "7" / which is one identification information when identification information changes one by one] and when changing into other patterns "*" from a pattern "9" and displaying It is a concept containing the case where it moves one pattern "7" being displayed in a viewing area when the identification information moves and is displayed, while one identification information had been displayed in the viewing area which can display identification information, or both sides or either.

[0045] Furthermore, it is the concept included when the display mode of identification information changes (for example, when [the case where one pattern "7" deforms, and it is displayed oblong or is displayed longwise, when a pattern is expanded and displayed or is reduced and displayed] etc.).

[0046] On the other hand, the mode which a position is stopped and displays the identification information picture "a halt display" indicates a certain identification information to be is said.

[0047] Furthermore, "a regular change display" is already a mode by which a change indication of the identification information picture is given again, before the pachinko ball which a game person discharges carries out passage or the ON sphere of the position. Although it began to be indicated by change, and the halt display identification information picture ignited by the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position was automatic and it was indicated by halt in the conventional game In the game in this invention to which "a regular change display" is performed As mentioned above, before the pachinko ball which a game person discharges carries out passage or the ON sphere of the position A halt indication of the change display identification information picture ignited by a change indication of at least one of the identification information pictures already being given, and the pachinko ball which a game person discharges having carried out passage or the ON sphere of the position is given.

[0048]

[Embodiments of the Invention] Below, the example of this invention is explained based on a drawing.

[0049] The front view showing a general view of the game machine by [composition of pachinko game machine] this invention is shown in drawing 1 . In addition, in the operation gestalt explained below, the case where this invention is applied to a pachinko game machine as a suitable operation gestalt for the game machine concerning this invention is shown.

[0050] The game board 14 included in the pachinko game machine 10 by the main

part frame 12 and the main part frame 12, The window frame 16 of the main part frame 12 prepared in the front face of the game board 14, and the upper pan 20 and the lower pan 22 prepared in the front face of the main part frame 12 with the window frame 16 down side, The discharge handle 26 prepared in the right-hand side of the lower pan 22, and the loudspeaker 46 (46a-46d) and ** which saw from the front face and were prepared in the four corners of the main part frame 12 are arranged.

[0051] Moreover, two or more obstacle nails (not shown) are driven into the front face of the game board 14. In addition, it does not consider as composition which drives in a nail, but the game board 14 is fabricated for a resin material, it is good also as composition implanted so that a metal rod-like structure may be projected in the game board 14 of this resin material at the front of the game board 14, and this invention can be applied also to the pachinko game machine 10 (party contest machine) which was mentioned above and which carried out **** composition. In addition, in this specification, it is a concept also containing a party contest machine in the pachinko game machine 10.

[0052] Furthermore, the discharge handle 26 is formed free [rotation] to the main part frame 12, and the game person can advance the pachinko game by operating the discharge handle 26. The discharge motor 28 is formed in the background of the discharge handle 26.

[0053] Furthermore, the touch sensor 29 is formed in the periphery section of the discharge handle 26 again. When a game person's hand touches a touch sensor 29, by having emitted the touch detecting signal from the touch sensor 29, and having emitted this signal, a game person is supposed that the discharge handle 26 was supported, and is judged that the pachinko game machine 10 is among a game. When the discharge handle 26 is supported by the game person and rotation operation is carried out in the direction of a clockwise rotation, according to the rotation angle, power is supplied to the discharge motor 28, and the pachinko ball stored by the upper pan 20 is discharged one by one by the game board 14.

[0054] in addition, as a touch sensor used in order to judge whether the game person is performing the game, not only the touch sensor 29 formed in the periphery section of a discharge handle but the touch sensor with which the parts (for example, seat of a game chair etc.) which can contact automatically [in case a game person performs a game] were prepared is mentioned -- having -- any one of these -- or plurality may be prepared

[0055] The discharged pachinko ball is guided at the guide rail 30 prepared on the game board 14, moves to the upper part of the game board 14, and after that, changing the travelling direction by the collision with two or more obstacle nails mentioned above, the game board 14 goes caudad and it falls.

[0056] The expansion front view to which the game board 14 was expanded is shown in drawing 2 . In addition, the same sign was given to the component shown in drawing 1 mentioned above, and the corresponding component. Moreover, drawing 2

showed what was omitted about the obstacle nail mentioned above.

[0057] The display 32 (it is equivalent to "the display which displays [change-] or displays [halt-] two or more identification information pictures") which is the **** display mentioned later is formed in the center of abbreviation of the front face of the game board 14. Display 52 is formed in the center of the upper part of display 32. This display 52 consists of for example, 7 segment drops, and an adjustable indication of the common pattern which is display information is given so that change and a halt may be repeated.

[0058] The sphere passage detectors 55a and 55b are formed in the flank of right and left of display 32. When it detects that the pachinko ball passed through the near, after the change display of a pattern is usually started and predetermined carries out time progress in the display 52 mentioned above, the change display of a pattern usually stops this sphere passage detector 55a or 55b. Usually, a pattern is this information that consists of a number, a sign, etc., for example, are signs, such as numbers from "0" to "9", and "*."

[0059] When a pattern usually turns into this predetermined pattern, "7", it stops and it is displayed, current is supplied to the solenoid 57 (not shown) for driving the movable pieces 58a and 58b prepared in the both sides of right and left of the starting mouth 44 mentioned later, the movable pieces 58a and 58b are driven so that a pachinko ball may tend to go into the starting mouth 44 and may become it, and the starting mouth 44 is made to be in an open state. [for example,, In addition, when predetermined time passes after making the starting mouth 44 into an open state, a movable piece is driven, and a pachinko ball cannot enter easily and it is made to become by making the starting mouth 44 into a synzesis state.

[0060] Four hold lamps 34a-34d are formed in the both sides of right and left of the display 52 mentioned above. When it is stocked that the pachinko ball carried out the ON sphere to the starting mouth 44 when the ON sphere of the pachinko ball was carried out to the starting mouth 44 by operation of a game person, these hold lamps 34a-34d will be turned on based on the number of the internal lottery data stocked so that it may mention later.

[0061] Furthermore, the general winning-a-prize mouth 50 is formed in the upper part of display 52. Moreover, the winning-a-prize mouth 38 of a pachinko ball is formed in the lower part of the game board 14. Near this winning-a-prize mouth 38, the shutter 40 is formed free [opening and closing]. When the adjustable display game mentioned later changes into a great success state, a shutter 40 is driven by the solenoid 48 so that it may be in an open state.

[0062] The general winning-a-prize mouths 54a and 54b are formed in the both sides of right and left of the display 32 mentioned above. Furthermore, the general winning-a-prize mouths 54c and 54d are formed in the both sides of right and left of the lower part of display 32. Moreover, the winning-a-prize mouths 56a and 56b are specially formed in the edge of right and left of the game board 14, and the winning-a-prize mouths 56c and 56d are specially formed in the both sides of right and left

of the winning-a-prize mouth 38.

[0063] Moreover, the starting mouth 44 which has the sphere detection sensor 42 used as the opportunity which shifts to a halt display state in two or more patterns which the adjustable display game mentioned later is started and are displayed on display 32, for example, the pattern which are three identification information, is formed. The winning-a-prize mouth 38 mentioned above, the starting mouth 44, the general winning-a-prize mouths 54a-54d, and when a pachinko ball wins specially a prize of the winning-a-prize mouths 56a-56d, it is made as [pay / the lower pan 22 / a number of pachinko balls beforehand set up according to the kind of winning-a-prize mouth]. In addition, although "a halt indication" of "the identification information picture by which it is always indicated by change" is given with this operation gestalt so that a pachinko ball may mention later to the starting mouth 44, when a pachinko ball carries out an ON sphere That what is necessary is just that "by which a halt indication of the identification information picture by which it is always indicated by change ignited by the pachinko ball having carried out passage or the ON sphere of the position is given" You may carry out an opportunity [having passed, even if a pachinko ball does not carry out / **** / an ON sphere ignited by the pachinko ball having carried out the ON sphere to positions other than starting mouth 44].

[0064] Furthermore, the rolling flare-part material 59a and 59b for guiding the path of a pachinko ball in the predetermined direction is also formed in the both sides of right and left of display 32 again. Moreover, the ornament lamps 36a and 36b are formed in the outside upper left-hand side and outside upper right-hand side of the game board 14.

[0065] In addition, even if the portion which displays the production picture later mentioned in the display 32 mentioned above consists of a liquid crystal display panel, it may consist of the Braun tube. Moreover, in the example mentioned above, although it showed the case where it was prepared in the center of abbreviation of the front face of the game board 14 of the pachinko game machine 10 which is a game machine, if display 32 is a position by which a game person is seen, it is good also as forming display 32 in the position of what of a game machine.

[0066] The block diagram showing the control circuit of the pachinko game machine which is the operation gestalt of [composition of control section of pachinko game machine] this invention is shown in drawing 3 .

[0067] The discharge handle 26 mentioned above is connected to the interface-circuitry group 62 of the main-control circuit 60, and the interface-circuitry group 62 is connected to the input/output bus 64. After the angle signal which shows the rotation angle of the discharge handle 26 is changed into a predetermined signal by the interface-circuitry group 62, it is supplied to an input/output bus 64. The input/output bus 64 is made as [input / output and / a data signal or an address signal / by the central-process circuit (CPU is called hereafter) 66]. Moreover, the interior of CPU66 is equipped with two or more timers (not shown) mentioned later.

[0068] Moreover, the touch sensor 29 is also connected to the interface-circuitry group 62 of the main-control circuit 60. After a touch sensor 29 emits the touch detecting signal which detects what a game person's hand touched in the interface-circuitry group 62, it is supplied to an input/output bus 64.

[0069] Moreover, the sphere detection sensor 42 is also connected to the interface-circuitry group 62 mentioned above, and when a pachinko ball passes the starting mouth 44, the sphere detection sensor 42 supplies a detecting signal to the interface-circuitry group 62. Furthermore, the sphere passage detector 55 is also connected to the interface-circuitry group 62, and the sphere passage detector 55 supplies a detecting signal to the interface-circuitry group 62, when it detects that the pachinko ball passed through the near.

[0070] ROM (read-only memory)68 and RAM (random access memory)70 are connected to the input/output bus 64 mentioned above. ROM68 records the control program which controls the flow of the whole game of a pachinko game machine. Furthermore, ROM68 also memorizes the initial data for performing a control program, the program which controls the blink operation pattern of the ornament lamp 36, the program which carries out the display control in display 32, and the sound data which are needed in case an adjustable display game is performed in display 32. Moreover, RAM70 memorizes the value of the flag used by the program mentioned above, or a variable.

[0071] The program which carries out the display control in this operation gestalt What "indicates the aforementioned identification information picture by halt in the mode according to the fluctuation velocity of two or more aforementioned identification information pictures by which it is always indicated by change" is included to the pachinko game machine 10. Moreover, after [when a halt indication of the identification information picture by which it is always / " / indicated by change was given] the time or a halt indication is given " thing on which the identification information picture by which it is newly indicated by change always is displayed, "before a pachinko ball carries out passage or the ON sphere of the position, [from] " thing on which the production whose character performs operation which is going to indicate by halt the identification information picture by which it is indicated [aforementioned] by change in the aforementioned display is displayed, "after [when a halt indication of the identification information picture by which it is always indicated by change was given] the time or a halt indication is given "" thing on which the identification information picture by which it is newly indicated by change always is displayed, only while the game person is performing the game, the identification information picture is always indicated by change. While the game person is not performing the game," thing which stops that a change indication of the identification information picture is always given, and the thing "on which the picture which shows that a pachinko game machine is in a vacancy state is displayed while the game person is not performing the game" are also included. In addition, although the program in this operation gestalt was recorded on ROM68, it

should just be recorded on storages, such as a hard disk drive unit, CD-ROM, and DVD. Moreover, even if these programs are not recorded beforehand, they may be recorded by RAM70 grade after powering on. Furthermore, each of a program may be recorded on the separate storage again.

[0072] Furthermore, the interface-circuitry group 72 is also connected to the input/output bus 64. A loudspeaker 46 (46a-46d), the discharge motor 28, solenoids 48 and 57, the hold lamp 34 (34a-34d), and the ornament lamp 36 are connected to the interface-circuitry group 72, and the interface-circuitry group 72 supplies a driving signal and drive power to it that each of the equipment mentioned above according to the result of data processing in CPU66 should be controlled.

[0073] Moreover, a solenoid 48 is for carrying out the opening-and-closing drive of the **** shutter 40 mentioned above, and a solenoid 57 is for driving the **** movable pieces 58a and 58b mentioned above. Furthermore, the hold lamp 34 (34a-34d) shows the number of times from which the combination of the pattern displayed on display 32 became effective. Furthermore, the ornament lamp 36 blinks or lights up again to show a game person that, when it becomes a time of a game being becoming it a great success, and reach.

[0074] Furthermore, the random-number-generation section 65 for a random number being generated is connected to the input/output bus 64 again. When the instruction for generating a random number is emitted from CPU66 to the random-number-generation section 65, the random-number-generation section 65 generates the random number of the predetermined range, and emits the signal which shows the value of the random number to an input/output bus 64. CPU66 determines the advance situation of a game with this generated random number. Internal lottery processing performed at Step S44 mentioned later by this is performed.

[0075] Moreover, "at least one or more identification information pictures are always change displays among two or more identification information pictures" of the pachinko game machine of this operation gestalt is carried out. Before the pachinko ball which a game person discharges carries out an ON sphere to the starting mouth 44, a change indication of "being at least one or more identification information pictures among two or more identification information pictures" is already given, and the game of the present distance is performed. And a halt indication of "the identification information picture by which it is always indicated by change" is given ignited by the pachinko ball which a game person discharges having carried out the ON sphere to the starting mouth 44, and a change indication of the identification information picture is given that the game of the following distance should be started so that it may mention later.

[0076] For this reason, after it is judged that the pachinko game machine 10 is in a game state when a game person touches a touch sensor 29, based on the random number emitted from the random-number-generation section 65, internal lottery processing in which the advance situation of a game is determined is performed, and a change display is always started so that it may mention later. Moreover, by

carrying out the ON sphere of the pachinko ball to the starting mouth 44, a halt indication of the pattern is given, it combines, and an internal lottery is performed that the advance situation of the game in the following distance should be determined.

[0077] Furthermore, the hold lamp 34 (34a-34d) mentioned above again When three internal lottery data recorded by internal lottery processing are recorded so that it may mention later When the 1st lights up and four internal lottery data are recorded, the 2nd lights up, when five internal lottery data are recorded, the 3rd lights up, and when six internal lottery data are recorded, the 4th lights up.

[0078] In addition, the random number emitted from the random-number-generation section 65 is recorded on RAM70 as data in which a lottery result is shown. For example, the record processing of data which shows a lottery result using the **** data map shown in drawing 4 is explained. Drawing 4 is data in which a lottery result is shown, and shows each storage region of these data at a small rectangular head.

[0079] The data in which a lottery result is shown are recorded on the order which cast lots sequentially from the position of the sign A0 of drawing to RAM70, as shown in drawing 4 (A). In that case, the internal lottery data currently recorded on the position of a sign A0 are read, and the change display of the pattern in the present distance is started at it based on the internal lottery data. In addition, "FFFFFFFF" is recorded on the place where internal lottery data are not recorded as empty data. Moreover, by the time a halt indication of the pattern was given, when a lottery was performed, it was vacant sequentially from the position of a sign A0, data were searched, there were empty data, as shown in drawing 4 (B) and it distinguishes, internal lottery data are recorded on the place (in the case of drawing 4 (A), it corresponds to the position of a sign A1). Moreover, it is recorded one by one, and as shown in drawing 4 (C), when the position of sign A5, i.e., a maximum of six lottery result data, is recorded from the position of a sign A0, it is not recorded even if a lottery is performed. Moreover, when the change display of the pattern will be a halt display by giving a halt indication of the pattern by which it was indicated by change based on a lottery result, as shown in drawing 4 (D), it is vacant in the position of a sign A0, and "FFFFFFFF" is recorded as data. And the internal lottery data currently recorded on the position of a sign A1 are made to record on the position of a sign A0, as shown in drawing 4 (E). In addition, the internal lottery data after the position of a sign A1 are also vacant in the position (it corresponds to the position of the sign A1 of drawing 4 (E)) where it was recorded similarly and the last data were recorded, and record data "FFFFFFFF." Internal lottery data will be recorded on the position of a sign A0 by this.

[0080] Moreover, although a halt indication of the pattern by which it is always indicated by change will be given when the game in the present distance is completed when it is in the state shown in drawing 4 (A), namely, a pachinko ball carries out an ON sphere to the starting mouth 44, internal lottery processing is performed that the advance situation of the game in the following distance should be

determined before it. for this reason, as the internal lottery data generated by the internal lottery processing show drawing 4 (B), when a halt indication of the pattern by which was recorded on the position of a sign A1 and it was indicated by change is given As shown in drawing 4 (E), the internal lottery data currently recorded on the position of the sign A1 in drawing 4 (B) will be recorded on the position of a sign A0, and internal lottery data will surely be recorded on the position of a sign A0. For this reason, the internal lottery data in the present distance will be recorded on the position of a sign A0, and the internal lottery data in the following distance will be recorded on the position of a sign A1, and the internal lottery data as 1-4 hold spheres will be recorded on the position of a sign A2 - A5.

[0081] Furthermore, the communication interface circuit 72 is also connected to the input/output bus 64, and a communication interface circuit 72 is again for carrying out communication with server 80 grade through communication lines, such as a dial-up line network and a Local Area Network (LAN). In addition, although considered as the composition which consists only of a pachinko game machine with this operation gestalt, the pachinko game machine 10 is good also as composition connected to the server which can transmit and receive predetermined information so that it may mention later.

[0082] Furthermore, the display controller 200 is also connected to the interface-circuitry group 72, and a display controller 200 emits the driving signal for driving the display 32 connected to the display controller 200 based on the image display instruction emitted from the main-control circuit 60 again.

[0083] The block diagram showing the circuit of the display controller 200 which carried out [composition of display controller of pachinko game machine] **** is shown in drawing 5 .

[0084] The interface circuitry 202 is connected to the input/output bus 204, and the image display instruction emitted from the main-control circuit 60 mentioned above is supplied to an input/output bus 204 through an interface circuitry 202. The input/output bus 204 is made as [input / output and / a data signal or an address signal / by the central-process circuit (CPU is called hereafter) 206].

[0085] ROM (read-only memory)208 and RAM (random access memory)210 are connected to the input/output bus 204 mentioned above. ROM208 memorizes the display-control program for generating the driving signal supplied to display 32 based on the image display instruction emitted from the main-control circuit 60. On the other hand, RAM210 memorizes the value of the flag used by the program mentioned above, or a variable.

[0086] Furthermore, the image data processor (VDP is called hereafter) 212 is also connected to the input/output bus 204. This VDP212 is the processor which can perform various processings for displaying a picture on display 32 including circuits, such as the so-called sprite circuit, a screen circuit, and a pallet circuit.

[0087] ROM216 for image data and ** which memorize image data, such as Video RAM 214 for memorizing the image data according to the image display instruction

emitted from the main-control circuit 60, image data of a background, image data of a pattern, and image data of a character, are connected at VDP212 mentioned above. Furthermore, the drive circuit 218 which emits the driving signal for driving display 32 is also connected to VDP212.

[0088] CPU206 mentioned above makes Video RAM 214 memorize the image data displayed on display 32 according to the image display instruction emitted from the main-control circuit 60 by reading and performing the display-control program memorized by ROM208. Display instructions, such as a background display instruction, and a pattern display instruction, a character display instruction, are contained in the image display instruction emitted from the main-control circuit 60.

[0089] Moreover, ROM216 for image data memorizes image data, such as character image data of the character of the data of the picture of the pattern which is an identification information picture, the dynamic body object displayed as a production screen, and background-image data which constitute the background of display 32, as mentioned above.

[0090] When indicating the pattern by change in display 32, in case the image data of the pattern mentioned above indicates by halt, it is used, and it contains the image data according to various display modes, for example, the expanded picture, the reduced picture, the picture which deformed. Moreover, the character image data mentioned above contains the image data to which a character is needed for displaying the mode which carries out a series of operation.

[0091] Next, the schematic diagram showing the concept of the image data generated by Video RAM 214 mentioned above is shown in drawing 6 .

[0092] As shown in drawing 6 , the size (the screen picture field R1 is called hereafter) of the image data generated by screen-display instruction at Video RAM 214 is set up so that it may become larger than the viewing area R2 displayed on display 32. In addition, in drawing 6 , the screen picture field R1 shows the field surrounded as the solid line, and a viewing area R2 shows the field surrounded with the dashed line. Thus, by setting up, the picture which should be displayed on display 32 can be smoothly indicated by scrolling so that it may mention later.

[0093] When a pattern display instruction is emitted from the main-control circuit 60, VDP212 arranges the image data read to the position in Video RAM 214 corresponding to the position which should display the picture of a pattern on display 32, after reading the image data of each pictures D1-D3 which show the pattern which is an identification information picture from ROM216 for image data.

[0094] Moreover, when a character display instruction is emitted from the main-control circuit 60, VDP212 arranges the image data read to the position in Video RAM 214 corresponding to the position which should display the picture of a character on display 32, after reading each image data of the character pictures C1-C3 from ROM216 for image data.

[0095] Furthermore, when a background display instruction is emitted from the main-control circuit 60, VDP212 arranges the image data read to the position in

Video RAM 214 corresponding to the position which should display the picture of a background on display 32 again, after reading the image data of the picture B1 of a background from ROM216 for image data.

[0096] After VDP212 generates image data to Video RAM 214, it reads only the image data memorized by the viewing area R2 from Video RAM 214, and supplies it to the drive circuit 218 by making this into a status signal. And as mentioned above, the pattern which is an "identification information picture" is "change-displaying or halt displaying" by displaying a picture the whole coma and making the display position of the picture change.

[0097] By recording image data on Video RAM 214, as [example of the display of picture in game] **** was carried out, a picture is displayed on display 32 and a game is advanced. The example of a display of the picture displayed in this game comes to be shown in drawing 11 from drawing 7 .

[0098] Drawing 7 shows the example as which each of three patterns is displayed in the mode by which it is always indicated by change. Moreover, drawing 8 shows the example displayed in the mode by which a halt indication of the one pattern is given among three patterns, and drawing 9 shows the mode by which a halt indication of each of three patterns was given. Furthermore, after a halt indication of each of three patterns is given, each of the pattern scrolls drawing 10 outside a screen again. It is what shows the example displayed in the mode which scrolls and appears from the outside of a screen while it combines and each of three new patterns always indicates by change. drawing 11 After the change display always started, when predetermined time has been passed, the example as which each of three patterns was displayed in the mode by which it is always indicated by change is shown. In addition, although each of the pattern shown in drawing 11 from drawing 7 is drawn as a static image, since change-displaying or halt displaying cannot express it clearly, the pattern by which it is indicated by change is drawn as if the pattern was actually indicating by change.

[0099] As shown in the upper part of display 32 at drawing 7 , a change indication of the three patterns is given and the character is displayed on the lower part of display 32. Each of three patterns is drawn on three boards which rotate to lengthwise, and the change display of a pattern is performed by changing, whenever the board half-rotates. Moreover, that a character should indicate each of three patterns by which it is indicated by change by halt, although a beam beam of light is emitted, a change indication of each of three patterns is given, without applying the beam beam of light to a board. In addition, it continues a change display until it carries out the ON sphere of each of three patterns to the starting mouth 44 which the pachinko ball mentioned above so that it may mention later.

[0100] The board on which the beam beam of light emitted from the character hit the board on which the chart on the left handle was drawn, and the pattern was drawn moves caudad by carrying out an ON sphere to the starting mouth 44 which the pachinko ball mentioned above, when a change indication of each of three

patterns is given, decelerating the rotation. And it is indicated by halt and a chart on the left handle is decided as an effective pattern, as shown in drawing 8 . Moreover, production for [this] indicating by halt is performed also in a right-hand side pattern and a central pattern like a chart on the left handle, and as shown in drawing 9 , a halt indication of all of each of three patterns is given. In addition, production is performed in order of a chart on the left handle, a right-hand side pattern, and a central pattern.

[0101] A character makes the situation of indicating by halt the pattern by which it is always indicated by change as an identification information picture displayed by performing such production. The effect of making the zeal over a game person's game increase is done so by urging carrying out passage or the ON sphere of the pachinko ball to a position to a game person, emphasizing that an identification information picture stops according to a game person's own game force further, and displaying.

[0102] The combination of the pattern which indicated by halt is "7". - "7" - When in agreement with predetermined combination (a great success pattern is called henceforth), such as "7", it shifts to a game state advantageous to a game person, i.e., a great success state. When not in agreement with the great success pattern which the combination of the pattern which indicated by halt mentioned above on the other hand, the usual game is performed succeedingly.

[0103] Usually, in the case where a game is continued, as shown in drawing 10 , three patterns by which it was indicated by halt in the last distance scroll below, and disappear out of a screen. Moreover, while three patterns by which it is indicated by change scroll from the upper part of display 32 simultaneously with it, it is displayed on display 32.

[0104] Since it becomes what "the identification information picture by which it is newly indicated by change always is displayed for after [which the identification information picture by which it is always / aforementioned / indicated by change stopped] stopping at the time" by performing such production Ignited by the pachinko ball which the game person itself discharged having carried out passage or the ON sphere of the position The game machine which offers the new game gestalt that a halt indication of the identification information picture by which it is always indicated by change is given and of so to speak stopping an identification information picture by a game person's own force in relation to direct game operation of a game person In (namely, the pachinko game machine which has the technical intervention nature which a game person can make indicate the identification information picture by halt with one's intention) Even when the identification information picture always changed repeats a halt and change continuously and is performing them While being able to offer the display mode which it becomes possible to display in emphasis the sequence of change of being indicated by halt at the last, and a halt from the state by which it was indicated by change in the beginning, and is fresh It becomes possible to continue giving a game person the feeling of stopping an identification

information picture by a game person's own force in relation to direct game operation of a game person mentioned above.

[0105] Moreover, it can be made easy to recognize that could distinguish the identification information picture by which it is indicated by halt with the identification information picture by which it is always indicated by change, and the game person indicated the identification information picture by halt with his intention since an identification information picture seemed to change from the start even when there is a hold sphere.

[0106] Moreover, in addition to this, various production is performed. For example, when predetermined cannot carry out the time ON sphere of the pachinko ball to the starting mouth 44, as shown in drawing 11, production of which a character burns "someone - and which utters voice to a game person for it to stop and for -" etc. carry out the ON sphere of the pachinko ball to the starting mouth 44 early is also performed.

[0107] Even when the identification information picture by which it is always indicated by change by performing such production covers a long time and is not stopped, can avoid always continuing not performing a change display in monotone, minus thinking called weariness and abandonment of a game person is made to wipe away, and it becomes possible to make the volition to a game person's game continue.

[0108] Furthermore, it is shown that the probability that the pattern by which production with which the fluctuation velocity of the pattern which indicates by change differs from the usual speed again may be performed, and it is indicated by halt the more in this case the more fluctuation velocity is slow is in agreement with a great success pattern is high. In addition, with this operation form, a change indication of the fluctuation velocity is given at order with a quick speed by the three-stage of "it is usually speed" "low speed", and "minimum speed" **. Moreover, the positions where each of three patterns by which it is indicated by change is displayed based on fluctuation velocity differ, and the more fluctuation velocity is slow, the more a change display is performed in a low position. Furthermore, when the fluctuation velocity of the pattern by which it is indicated by change is slower than "it is usually speed" again, production which indicates by halt in time shorter than the case of "being usually speed" is performed. In addition, the speed displayed that a pattern moves below is fixed.

[0109] Since it becomes what "the aforementioned identification information picture is indicated for by halt in the mode according to the fluctuation velocity of two or more aforementioned identification information pictures by which it is always indicated by change" by performing such production Change can be given to the mode of a halt display of an identification information picture, and while providing a game person with the real feeling of stopping the identification information picture by carrying out passage or the ON sphere of the position for the pachinko ball which the game person discharged, a fresh display mode can be offered.

[0110] Furthermore, it is shown that the probability that the pattern by which production by which a halt indication of at least one of the patterns mentioned above is given from the beginning may also be performed again, and it is indicated by halt in this case is in agreement with a great success pattern is high. In addition, although a change indication of the fluctuation velocity was given by the three-stage as mentioned above, in this case, "a halt" is added to it and it is set as four stages in all.

[0111] It becomes possible to perform a game, having a hope for a great success game, even when a game situation can be grasped easily and reach has not started by the beginners' class person, either, since it becomes what "great success reliability is reported for according to the number of the identification information pictures by which it is always [aforementioned] indicated by change" by performing such production. Moreover, since a game situation can be grasped easily, it becomes easy to attach judgment in which pachinko game machine a game is performed according to the reliability of the great success for those who are going to stop the game for or or those who is doing selection who it becomes easy to attach judgment whether a game is succeedingly performed in the pachinko game machine of self, and performs a game with which pachinko game machine. Especially, when the reliability of great success is high, performing a game to those who are going to stop the game succeedingly will be urged, and it will be urged that a game is performed to those who have chosen which pachinko game machine performs a game.

[0112] The example of a display of the picture at the time of a [example of the display of picture in non-game] pachinko game machine being in a non-game state comes to be shown in drawing 12 and drawing 13 .

[0113] The example by which it is stopped that a change indication of all the three patterns is always given, and a halt indication of drawing 12 is given is shown. Moreover, drawing 13 shows an example of the picture which shows that the pachinko game machine 10 is in a vacancy state. In addition, in drawing 12 and drawing 13 , although a pattern reaches respectively and the character is drawn as a static image, a character is able for a pattern to reach respectively and to be displayed [to also be displayed as a perfect static image, and] as a picture accompanied by movement.

[0114] If in the case of the example shown in drawing 12 it was after switching on the power supply of the pachinko game machine 10, when it is judged that it shifted into the non-game out of the game when a halt indication of the discernment display image of a certain fixed pattern was given and a game person separated from a touch sensor 29, a halt indication of each discernment display image by which it is always indicated by change after fixed time progress will be given. When a halt indication of the discernment display image is given by shifting into a non-game out of a game, and the pachinko ball carried out passage or the ON sphere of the position, it is also possible to direct the method of a different halt from the case where it is indicated by halt. For example, it is also possible to emit the beam beam

of light with which characters differ by the halt display by winning a prize and the halt display in a non-game, and, in the halt display in a non-game, a character cannot emit a beam beam of light at all, either.

[0115] It is based on the following reasons that we decided to change a picture after the game person separated from the touch sensor and passing fixed time. Since it is possible to stand the seat between short time for the purchase of a game person not restricting always touching the touch sensor into a game, but resting a hand, a smoking, a drink, etc., etc., exchange, a break, etc., if a picture changes immediately after separating from a touch sensor in such a case, possibility that the pachinko game machine concerned will be judged to be among a non-game by those who are looking for other game bases will arise. Then, in order to reduce the possibility of such judgment, after the game person separated from the touch sensor and passing fixed time, we decided to change a picture.

[0116] It differs from the example of drawing 9 which a halt display will not be fixed in that it does not always [new] shift to a change display until it is judged that it is among a game in a game person touching a touch sensor 29 in the halt display in a non-game although image display by which the example of **** shown in drawing 12 was substantially similar to the example of drawing 9 will be carried out, but will always [immediately new] shift to a change display.

[0117] In the case where the pachinko game machine 10 is among a game by carrying out such production, and the case where it is among a non-game, the picture of a gestalt different, respectively will be displayed on display 32, and possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who are going to play a game in an amusement center.

[0118] In addition, when the above-mentioned picture is displayed and a game person touches a touch sensor 29, the discernment display image which is a display image in a game will change to the picture by which it was always indicated by change promptly.

[0119] In the case of the example shown in drawing 13 , the picture which shows that the case after switching on the power supply of the pachinko game machine 10, and the case after fixed time progress judged to have shifted into the non-game out of the game when a game person separated from a touch sensor 29 have the pachinko game machine 10 in a vacancy state will be displayed. Although production which calls in those to whom voice is uttered as "welcome", or a character is displaying as a picture and tends to play the game of the character of "welcome" in drawing 13 to the game machine concerned is performed, you may be the production which displays the animation in which a character appears, without carrying out production which is called in.

[0120] In the case where the pachinko game machine 10 is among a game by carrying out such production, and the case where it is among a non-game, the picture of a gestalt different, respectively will be displayed on display 32, and

possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who are going to play a game in an amusement center.

[0121] Furthermore, again, when the pachinko game machine 10 is in a vacancy state, production which displays the number of times of generating of the latest great success of the pachinko game machine concerned may be made to be performed.

[0122] Since the number of times of generating of the latest great success of the pachinko game machine concerned will be shown to those who are going to play a game by carrying out such production, for or or those who is doing selection who performs a game with which pachinko game machine, possibility of becoming easy to attach judgment in which pachinko game machine a game being performed according to the number of times of generating of the great success arises.

[0123] Furthermore, when the probability that the pattern by which it is indicated by halt again at the time when the pachinko game machine 10 is in a vacancy state is in agreement with a great success pattern is high, the inside of a game is different image display, and production which performs image display which is different according to the value of the probability, respectively may be made to be performed.

[0124] Since the reliability of great success of the pachinko game machine concerned will be shown to those who are going to play a game by carrying out such production, for or or those who is doing selection who performs a game with which pachinko game machine, possibility of becoming easy to attach judgment in which pachinko game machine a game being performed according to the reliability of the great success arises.

[0125] in addition, the above -- also in which example, when the above-mentioned picture is displayed and a game person touches a touch sensor 29, the discernment display image which is a display image in a game will change to the picture by which it was always indicated by change promptly

[0126] The sub routine which controls the pachinko game machine 10 performed in the main-control circuit 60 which carried out [operation of pachinko game machine] **** is shown in drawing 20 from drawing 14 . In addition, the sub routine shown in drawing 14 , drawing 17 , and drawing 18 is called and performed from the main program of the pachinko game machine 10 currently performed beforehand to predetermined timing.

[0127] The pachinko game machine 10 is started beforehand below, and the variable used in CPU66 mentioned above shall be initialized by the predetermined value, and shall carry out regular operation.

[0128] By the game non-game detection routine, as shown at drawing 14 , judgment processing of whether the game person is touching the touch sensor 29 is performed to the [picture change processing] beginning (Step S11). In this processing, CPU66 judges whether the game person is touching the touch sensor 29 by the existence of the contact detecting signal from a touch sensor 29. The

contact detecting signal from a touch sensor 29 is not emitted, namely, when contact of a game person is not sensed, processing is moved to Step S12, the contact detecting signal from a touch sensor 29 is emitted, namely, when contact of a game person has been sensed, processing is moved to Step S13.

[0129] Subsequently, in processing of Step S12, picture change processing is performed at the time of a non-game. In this processing, CPU66 stops that a change indication of the identification information picture is always given, as mentioned above. In addition, production always changed and displayed on the picture which shows that the pachinko game machine 10 is in a vacancy state from a change display is also performed. Immediately after this processing is completed, this sub routine is terminated.

[0130] Moreover, in processing of Step S13, picture change processing is performed at the time of a game. In this processing, CPU66 is changed to the picture by which a change indication of at least one or more identification information pictures is always given among three stopped identification information pictures, as mentioned above. In addition, production changed and displayed on the picture by which a change indication of at least one or more identification information pictures is always given among three identification information pictures is also performed from the picture which shows that it is in a vacancy state. Immediately after this processing is completed, this sub routine is terminated.

[0131] In Step S12 mentioned above, the sub routine shown in drawing 15 is called.

[0132] First, judgment processing of whether there is any 2nd internal lottery data is performed (Step S21). In this processing, CPU66 judges whether the 2nd internal lottery data, i.e., the data currently recorded on the position of a sign A1 shown in drawing 4, is "FFFFFFFF(s)." In addition, it will distinguish, if the 2nd internal lottery data is recorded when the data currently recorded on the position of a sign A1 are not "FFFFFFFF", and when the data currently recorded on the position of a sign A1 are "FFFFFFFF", if the 2nd internal lottery data is not recorded, it will distinguish. When the 2nd internal lottery data is recorded, even if the game person is not touching a touch sensor 29, when this sub routine is terminated and the 2nd internal lottery data is not recorded, without judging that it is among a game and processing in any way, processing is moved to Step S22.

[0133] Subsequently, judgment processing about the picture currently displayed at the time is performed (Step S22). In this processing, CPU66 judges whether the picture currently displayed at the time is the ** picture at the time of a non-game from the information about the display image memorized by RAM70. Although it is not necessary to process and this sub routine is immediately terminated especially when it is judged that it is the ** picture at the time of a non-game, when it is judged that it is not the ** picture at the time of a non-game, processing is moved to Step S23.

[0134] Subsequently, at Step S23, judgment processing about the value of the timer for a picture change is performed. In this processing, CPU66 judges whether the

timer for a picture change is beyond a predetermined value. Although this sub routine is terminated without judging that it has not reached at time to still change a picture, and processing especially when it distinguishes that the timer for a picture change built in self is under a predetermined value, CPU66 moves processing to Step S24, when it distinguishes that the timer for a picture change built in is beyond a predetermined value. In addition, when it is after it terminates this sub routine, and the timer for a picture change counts up and passing in 300 seconds, i.e., 5 minutes, in being before passing in 300 seconds, i.e., 5 minutes, after the predetermined value is set up with 300 and the timer for a picture change counts up in the pachinko game machine in this operation gestalt, for example, processing will be moved to Step S46.

[0135] Subsequently, at Step S24, processing which changes the image display to the halt display from a regular change display of a discernment display image is performed. CPU66 supplies a picture change instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72, and makes RAM70 memorize having changed to the halt display image of the discernment display image whose present display image is the image display in a non-game simultaneously in this processing. In addition, the data in which the kind of the image data is shown are contained in this picture change instruction.

[0136] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a picture change instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a picture change instruction to VDP212. VDP212 which received the picture change instruction reads desired image data from ROM216 for image data based on the data currently recorded on RAM210 that a display image should be changed, and supplies it to the drive circuit 218. The drive circuit 218 which received the picture changes image data into a predetermined signal, and supplies it to display 32.

[0137] The display 32 which received the predetermined signal by this changes image display from the regular change display of the discernment display image which is the image display in a game to the halt display of the discernment display image which is the image display in a non-game. In addition, as for the image display after a change, production whose pachinko game machine 10 is in a vacancy state is also performed. Immediately after terminating this processing, this sub routine is terminated.

[0138] In Step S13 mentioned above, the sub routine shown in drawing 16 is called.

[0139] First, judgment processing about the picture currently displayed at the time is performed (Step S31). In this processing, CPU66 judges whether the picture currently displayed at the time is the ** picture at the time of a game from the information about the display image memorized by RAM70. Although this sub routine is terminated without processing especially when it is judged that it is the ** picture at the time of a game, when it is judged that it is not the ** picture at the time of a game, processing is moved to Step S32.

[0140] Subsequently, at Step S32, processing which always changes the image display to a change display from the halt display of a discernment display image is performed. CPU66 supplies a picture change instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72, and makes RAM70 memorize having changed to the regular change display image of the discernment display image whose present display image is the image display in a game simultaneously in this processing. In addition, the data in which the kind of the image data is shown are contained in this picture change instruction.

[0141] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a picture change instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a picture change instruction to VDP212. VDP212 which received the picture change instruction reads desired image data from ROM216 for image data based on the data currently recorded on RAM210 that a display image should be changed, and supplies it to the drive circuit 218. The drive circuit 218 which received the picture changes image data into a predetermined signal, and supplies it to display 32.

[0142] The display 32 which received the predetermined signal by this changes image display from the halt display of the discernment display image which is the image display in a non-game to the regular change display of the discernment display image which is the image display in a game. In addition, as for the image display before a change, production whose pachinko game machine 10 is in a vacancy state is also performed. After terminating this processing, processing is moved to Step S33.

[0143] Subsequently, the timer for a picture change is reset (Step S33). In this processing, CPU66 resets the timer for a picture change built in self. The value of the timer for a picture change by which the monitor was carried out at Step S23 is set as "0" by this, and count-up of the timer for a picture change is made to start again. Immediately after this processing is completed, this sub routine is terminated.

[0144] By [pachinko ball detection processing], next the pachinko ball detection routine, as shown in drawing 17, it judges whether the pachinko ball went into the winning-a-prize mouth (Step S41). This winning-a-prize mouth is the general winning-a-prize mouth 50, 54a-54d, and the special winning-a-prize mouths 56a-56d in the example shown in drawing 2 mentioned above, for example. In Step S41, when it distinguishes that the pachinko ball went into the winning-a-prize mouth, processing which pays out a number of pachinko balls beforehand defined according to the kind of winning-a-prize mouth is performed (Step S42).

[0145] Next, it judges whether the pachinko ball went into the starting mouth (Step S43). This starting is the starting mouth 44 in the example shown in drawing 2 mentioned above, for example. In this step S43, when it distinguishes that the pachinko ball went into the starting mouth, internal lottery processing is performed (Step S44).

[0146] CPU66 makes the random-number-generation section 65 generate a random

number in the internal lottery processing mentioned above. The generated random number is recorded on RAM70 as internal lottery data in which a lottery result is shown, as shown in drawing 4 . In addition, as mentioned above, when the internal lottery data in which six lottery results are shown are recorded on RAM70, it is not recorded even if a lottery is performed.

[0147] In addition, in the pachinko game machine 10 in this operation gestalt, CPU66 makes a power up generate a random number by the random-number-generation section 65, and records internal lottery data on it in the position of the sign A0 of RAM70 based on the random number. By this, a change display will be performed so that it may mention later. That is, when the game result based on internal lottery data is already determined before a pachinko ball carries out an ON sphere to the starting mouth 44, and a pachinko ball carries out an ON sphere to the starting mouth 44 by operation of a game person, in the internal lottery processing which it is indicated by halt and performed after an ON sphere, the game result in the game performed in the following distance is determined.

[0148] Moreover, when internal lottery data are made to record on the position of the sign A2 of RAM70 – A5 based on the processing, hold lamps [34a-34d] each is made to turn on in processing of this step S44, as mentioned above, although CPU66 performs internal lottery processing when the ON sphere of the pachinko ball is carried out to the starting mouth 44 by operation of a game person. Specifically, when internal lottery data were recorded on the signs A0-A2 of RAM70 and it distinguishes, CPU66 When only hold lamp 34a was made to turn on, internal lottery data were recorded on the signs A0-A3 of RAM70 and it distinguishes When two of the hold lamps 34a and 34b were made to turn on, internal lottery data were recorded on the signs A0-A4 of RAM70 and it distinguishes When the hold lamps 34a-34c were made to turn on, and internal lottery data were recorded on the sign A0 of RAM70 – A5 and it distinguishes, the hold lamps 34a-34d are made to turn on. When it is stocked by this that the pachinko ball carried out the ON sphere to the starting mouth 44, hold lamps [34a-34d] each will light up.

[0149] Furthermore, it judges whether the pachinko ball passed the sphere passage detector (Step S45). This sphere passage detector is the sphere passage detectors 55a and 55b in the example shown in drawing 2 mentioned above, for example. In this step S45, when a sphere passage detector is distinguished as the pachinko ball passed, as mentioned above, processing which usually indicates the pattern by change in display 52 is performed (Step S46).

[0150] In addition, as mentioned above, when are indicated by change and it becomes [at which the pattern usually stopped] a predetermined pattern, a pachinko ball tends to go into the starting mouth 44, and it is made to become it, as the movable pieces 58a and 58b are driven and it will be in an open state about the starting mouth 44.

[0151] [Image display processing] On the other hand, by the image display routine, as shown in drawing 18 , it judges whether the 2nd internal lottery data, i.e., the data

currently recorded on the position of a sign A1 shown in drawing 4 , is "FFFFFFFF(s)" (Step S51). In addition, it will distinguish, if the 2nd internal lottery data is recorded when the data currently recorded on the position of a sign A1 are not "FFFFFFFF", and when the data currently recorded on the position of a sign A1 are "FFFFFFFF", if the 2nd internal lottery data is not recorded, it will distinguish. When the 2nd internal lottery data is not recorded, processing is moved to Step S52, and when the 2nd internal lottery data is recorded, processing is moved to Step S53. In addition, since internal lottery data are always recorded on the position of the sign A0 of RAM70 as mentioned above, the ON sphere of the pachinko ball is carried out to the starting mouth 44, by performing internal lottery processing, by recording internal lottery data on the position of a sign A1, processing is moved and the halt display which mentions later is performed to Step S53.

[0152] Subsequently, change display processing is performed in processing of Step S52. In this processing, as mentioned above, CPU66 indicates each of three patterns by change, is combined, and displays a character. In addition, production by which a halt indication of at least one of the patterns is given from the beginning, and production in which scroll and the pattern which is newly displayed, and by which it is indicated by change is made to appear while making the pattern by which it was indicated by halt scroll, after being indicated by halt are also performed. Immediately after this processing is completed, this sub routine is terminated.

[0153] Moreover, halt display processing is performed in processing of Step S53. In this processing, as mentioned above, CPU66 indicates each of three patterns by which it is indicated by change by halt, is combined, and displays a character. Immediately after this processing is completed, this sub routine is terminated.

[0154] In Step S52 mentioned above, the sub routine shown in drawing 19 is called.

[0155] First, record processing of fluctuation velocity data is performed (Step S61). As internal lottery data are shown in drawing 4 , it is recorded on RAM70, and CPU66 computes the fluctuation velocity data of a pattern based on the internal lottery data, and records them on RAM70. After terminating this processing, processing is moved to Step S62.

[0156] In addition, this fluctuation velocity data is set as the value which shows "it is usually speed", a "low speed", the "minimum speed" or, and "a halt" in each of three patterns, as mentioned above. Moreover, fluctuation velocity data are made to set it as the value which shows "a halt" in the case where there is at least one pattern by which it is indicated by halt from the beginning, as mentioned above.

[0157] Subsequently, the display position of a pattern is determined (Step S62). In this processing, CPU66 computes the fluctuation velocity data computed and recorded at Step S61, the display-position data in which the position which displays each of three patterns based on the internal lottery data recorded at Step S44 is shown, and the data in which the kind of the pattern is shown that three patterns should be displayed, and records them on RAM70. After terminating this processing, processing is moved to Step S63.

[0158] In addition, the display-position data of three patterns in lengthwise [of display 32] are equivalent to the position of the axis of rotation in three boards describing each of three patterns mentioned above. On the other hand, the display-position data of three patterns in the longitudinal direction of display 32 are always determined uniformly. For this reason, each of three patterns will be displayed to move linearly toward lengthwise [of display 32], without image data's being reproduced by processing of Step S70 mentioned later, and rocking in the longitudinal direction of display 32.

[0159] Moreover, after being indicated by halt, the display position of the pattern which scrolls and disappears out of the screen of display 32, and display positions which scroll from the outside of the screen of display 32, and appear while being indicated by change, such as a pattern, are also determined. Furthermore, when the display-position data in lengthwise [of display 32] have fluctuation velocity data later than "it is usually speed", display-position data are computed again that it should indicate by change in a lower part from "it is usually speed." A pattern is made displayed that it makes it move to lengthwise [of display 32] in the case where it is made to display that it scrolled and appears from the outside of the screen of display 32 by this while indicating the pattern by change, as by computing display-position data one by one so that a pattern may be moved to lengthwise [of display 32] shows CPU66 to drawing 9 . Then, as shown in drawing 7 , the pattern is indicated by change by the display position determined based on fluctuation velocity data. Moreover, in the case where it is displayed that the pattern by which it was indicated by halt scrolls and disappears out of the screen of display 32, as shown in drawing 9 , CPU66 computes display-position data one by one so that a pattern may be moved to lengthwise [of display 32].

[0160] Subsequently, record processing of the change display image data of a pattern is performed (Step S63). In this processing, CPU66 supplies a pattern display instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72. In addition, the data in which the display position of a pattern is shown, fluctuation velocity data, internal lottery data, etc. are contained in this instruction.

[0161] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a pattern display instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a pattern display instruction to VDP212. VDP212 which received the pattern display instruction reads desired pattern image data from ROM216 for image data based on those data, and records it on Video RAM 214 while it reads each data from RAM208.

[0162] In addition, VDP212 determines the pattern image data which reads a pattern from ROM216 for image data based on the fluctuation velocity data recorded on RAM208 that it should indicate by change by desired fluctuation velocity, and reads the pattern image data. Moreover, in the case where the pattern by which it is indicated by halt from the beginning is displayed, since fluctuation velocity data are

set as the value which shows "a halt", VDP212 indicates the pattern by halt based on the fluctuation velocity data. After terminating this processing, processing is moved to Step S64.

[0163] Subsequently, at Step S64, it judges whether the timer for a picture halt is beyond a predetermined value. CPU66 moves processing to Step S65, when it distinguishes that the timer for a picture halt built in self is beyond a predetermined value, and when it distinguishes that the timer for a picture halt built in is under a predetermined value, it moves processing to Step S67. In addition, when it is after it moves processing to Step S65, and the timer for a picture halt counts up and passing in 300 seconds, i.e., 5 minutes, in being before passing in 300 seconds, i.e., 5 minutes, after the predetermined value is set up with 300 and the timer for a picture halt counts up in the pachinko game machine in this operation gestalt, processing will be moved to Step S67.

[0164] Subsequently, a character image display position is determined (Step S65). In this processing, CPU66 computes the display-position data in which the display position of a character picture is shown based on internal lottery data and the data in which the present game state is shown that a character picture should be displayed on display 32, and the data in which the kind of the image data is shown, and records those data on RAM70. After terminating this processing, processing is moved to Step S66.

[0165] Subsequently, record processing of character image data is performed (Step S66). In this processing, CPU66 supplies a character display instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72. In addition, the display-position data of a character picture, the data in which the kind of the image data is shown are contained in this instruction.

[0166] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a character display instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a character display instruction to VDP212. VDP212 which received the character display instruction reads desired character image data from ROM216 for image data based on the data currently recorded on RAM210 that a character picture should be displayed, and records this image data on Video RAM 214. In addition, in processing of this step S66, as mentioned above, the production which has tried for the beam beam of light emitted from a character not to hit a pattern, but to continue giving a change indication of the pattern, and for a character to indicate the pattern by halt will be made. After terminating this processing, processing is moved to Step S70.

[0167] On the other hand, in processing of Step S67, the voice data of a purport which indicates by halt is regenerated. In this processing, CPU66 reads the voice data recorded on ROM68, and supplies it to the interface-circuitry group 72 through an input/output bus 64. The interface-circuitry group 72 which received voice data changes the voice data into a predetermined signal, and supplies the predetermined signal to a loudspeaker 46 (46a-46d). Thereby, the loudspeaker 46 (46a-46d) which

received the predetermined signal utters the voice of a purport which indicates by halt to a game person. After this processing is completed, processing is moved to Step S68.

[0168] Subsequently, a character image display position is determined (Step S68). In this processing, that it should display a character picture on display 32 as well as processing of Step S65, CPU66 computes the display-position data in which the display position of a character picture is shown based on internal lottery data and the data in which the present game state is shown, and the data in which the kind of the image data is shown, and records those data on RAM70. After terminating this processing, processing is moved to Step S69.

[0169] Subsequently, record processing of character image data is performed (Step S69). In this processing, CPU66 supplies a character display instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72 like processing of Step S66. In addition, the display-position data of a character picture, the data in which the kind of the image data is shown are contained in this instruction.

[0170] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a character display instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a character display instruction to VDP212. VDP212 which received the character display instruction reads desired character image data from ROM216 for image data based on the data currently recorded on RAM210 that a character picture should be displayed, and records this image data on Video RAM 214. In addition, in processing of this step S69, the character image data which demands indicating the pattern by halt from a game person is recorded. After terminating this processing, processing is moved to Step S70.

[0171] Subsequently, the recorded image data is regenerated (Step S70). In this processing, VDP212 reads the image data recorded on Video RAM 214, supplies it to the drive circuit 218, and the drive circuit 218 which received image data changes image data into a predetermined signal, and it supplies it to display 32. Thereby, the display 32 which received the predetermined signal displays a picture. Immediately after this processing is completed, this sub routine is terminated.

[0172] By performing processing of Step S62 mentioned above, Step S63, and Step S70 Since it becomes what "the identification information picture by which it is newly indicated by change always is displayed for after [which the identification information picture by which it is always / aforementioned / indicated by change stopped] stopping at the time" Ignited by the pachinko ball which the game person itself discharged having carried out passage or the ON sphere of the position The game machine which offers the new game gestalt that a halt indication of the identification information picture by which it is always indicated by change is given and of so to speak stopping an identification information picture by a game person's own force in relation to direct game operation of a game person In (namely, the

pachinko game machine which has the technical intervention nature which a game person can make indicate the identification information picture by halt with one's intention) Even when the identification information picture always changed repeats a halt and change continuously and is performing them While being able to offer the display mode which it becomes possible to display in emphasis the sequence of change of being indicated by halt at the last, and a halt from the state by which it was indicated by change in the beginning, and is fresh It becomes possible to continue giving a game person the feeling of stopping an identification information picture by a game person's own force in relation to direct game operation of a game person mentioned above.

[0173] Moreover, it can be made easy to recognize that could distinguish the identification information picture by which it is indicated by halt with the identification information picture by which it is always indicated by change, and the game person indicated the identification information picture by halt with his intention since an identification information picture seemed to change from the start even when there is a hold sphere.

[0174] In Step S53 mentioned above, the sub routine shown in drawing 20 is called.

[0175] First, the display position of a pattern is determined (Step S71). In this processing, CPU66 computes the fluctuation-velocity data computed and recorded at Step S61, the display-position data in which the position which displays each of three patterns based on the internal lottery data recorded at Step S44 is shown, and the data in which the kind of the pattern is shown like Step S62 that three patterns should be displayed, and records them on RAM70. After terminating this processing, processing is moved to Step S72.

[0176] In addition, the display position in the longitudinal direction of display 32 is already determined. The display position in lengthwise [of display 32] is equivalent to the position of the axis of rotation in three boards describing each of three patterns mentioned above. Moreover, the display position in lengthwise [of display 32] determines a display position that a display position is determined, and it should display more nearly up than usual that it should display caudad rather than usual when fluctuation velocity data are earlier than usual, when fluctuation velocity data are later than usual.

[0177] Moreover, as CPU66 computes display-position data one by one so that the pattern by which it is indicated by change may be moved to lengthwise [of display 32], and it shows them after that to drawing 8 , a pattern is stopped at once by the display position which indicates by halt. After terminating this processing, processing is moved to Step S72.

[0178] Subsequently, record processing of the change display image data of a pattern is performed (Step S72). In this processing, CPU66 supplies a pattern display instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72. In addition, the data in which the display position of a pattern is shown, fluctuation velocity data, internal lottery data, etc. are contained

in this instruction. In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a pattern display instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a pattern display instruction to VDP212. VDP212 which received the pattern display instruction reads desired pattern image data from ROM216 for image data based on each of that data, and records it on Video RAM 214 while it reads each data from RAM208. After terminating this processing, processing is moved to Step S73.

[0179] In addition, VDP212 reads pattern image data from ROM216 for image data at this step S72 based on the fluctuation velocity data recorded on RAM208 in the pattern by which it was indicated by change that the fluctuation velocity should be made late one by one, and should indicate by halt. Moreover, VDP212 is displayed, indicating the pattern by halt, when there is at least one pattern by which it is indicated by halt from the beginning.

[0180] Subsequently, a character image display position is determined (Step S73). In this processing, like Step S65, that a character picture should be displayed on display 32, CPU66 computes the display-position data in which the display position of a character picture is shown based on internal lottery data and the data in which the present game state is shown, and the data in which the kind of the image data is shown, and records those data on RAM70. After terminating this processing, processing is moved to Step S74.

[0181] Subsequently, record processing of character image data is performed (Step S74). In this processing, CPU66 supplies a character display instruction to a display controller 200 through an input/output bus 64 and the interface-circuitry group 72 like Step S66. In addition, the display-position data of a character picture, the data in which the kind of the image data is shown are contained in this instruction.

[0182] In a display controller 200, through the interface-circuitry group 202 and an input/output bus 204, a character display instruction is received, and CPU206 records each data on RAM210, combines it, and supplies a character display instruction to VDP212. VDP212 which received the character display instruction reads desired character image data from ROM216 for image data based on the data currently recorded on RAM210 that a character picture should be displayed, and records this image data on Video RAM 214. In addition, in processing of this step S74, as mentioned above, a character will emit a beam beam of light, the beam beam of light will be made to hit each of three patterns one by one, and the production which indicates each of three patterns by halt will be made. After terminating this processing, processing is moved to Step S75.

[0183] Subsequently, the recorded image data is regenerated (Step S75). In this processing, VDP212 reads the image data recorded on Video RAM 214, supplies it to the drive circuit 218, and the drive circuit 218 which received image data changes image data into a predetermined signal, and it supplies it to display 32. Thereby, the display 32 which received the predetermined signal displays a picture. After terminating this processing, processing is moved to Step S76.

[0184] Subsequently, timer reset for a picture halt is performed (Step S76). In this processing, CPU66 resets the timer for a picture halt built in self. The value of the timer for a picture halt by which the monitor was carried out at Step S64 is set as "0" by this, and count-up of a timer is made to start again. After terminating this processing, processing is moved to Step S77.

[0185] Subsequently, re-record processing of internal lottery data is performed (Step S77). In this processing, CPU66 sets to "FFFFFFFF" the internal lottery data currently recorded on the position of the sign A0 of RAM70, as shown in drawing 4. And when the internal lottery data currently recorded on the position of a sign A1 are "FFFFFFFF", after terminating this processing, processing is moved to Step S78. On the other hand, when the internal lottery data currently recorded on the position of a sign A1 are not "FFFFFFFF", the value is recorded on the position of a sign A0. Then, it carries out to the position of a sign A2, a sign A3, and a sign A4 as well as the method recorded in the position of a sign A0 and a sign A1. And like before, when the internal lottery data currently recorded on the position of sign A5 are "FFFFFFFF", after terminating this processing, finally processing is moved to Step S78. On the other hand, when the internal lottery data currently recorded on the position of sign A5 are not "FFFFFFFF", the value is recorded on the position of a sign A4, is combined, and "FFFFFFFF" is recorded on the position of sign A5. And after terminating this processing, processing is moved to Step S78.

[0186] Subsequently, at Step S78, it judges whether the pattern was indicated by halt. CPU66 moves processing to Step S71 again, when it distinguishes that it is the middle of indicating the pattern by halt, as mentioned above, and when a pattern is distinguished as having indicated by halt completely, immediately after terminating this processing, it terminates this sub routine.

[0187] By processing Step S73 to Step S70 and the step S76 from Step S65 mentioned above A character by displaying the situation of indicating by halt the pattern by which it is always indicated by change as an identification information picture The effect of making the zeal over a game person's game increase is done so by urging carrying out passage or the ON sphere of the pachinko ball to a position to a game person, emphasizing that an identification information picture stops according to a game person's own game force further, and displaying.

[0188] By performing processing of Step S63, Step S70, Step S71, Step S72, and Step S75 from Step S61 mentioned above It becomes possible to perform a game, having a hope for a great success game, even when a game situation can be grasped easily and reach has not started by the beginners' class person, either, since it becomes what "great success reliability is reported for according to the number of the identification information pictures by which it is always [aforementioned] indicated by change." Moreover, since a game situation can be grasped easily, it becomes easy to attach judgment in which pachinko game machine a game is performed according to the reliability of the great success for those who are going to stop the game for or or those who is doing selection who it becomes easy to

attach judgment whether a game is succeedingly performed in the pachinko game machine of self, and performs a game with which pachinko game machine. Especially, when the reliability of great success is high, performing a game to those who are going to stop the game succeedingly will be urged, and it will be urged that a game is performed to those who have chosen which pachinko game machine performs a game.

[0189] By performing processing of Step S63, Step S70, Step S71, Step S72, and Step S75 from Step S61 mentioned above Since it becomes what "the aforementioned identification information picture is indicated for by halt in the mode according to the fluctuation velocity of two or more aforementioned identification information pictures by which it is always indicated by change" Change can be given to the mode of a halt display of an identification information picture, and while providing a game person with the real feeling of stopping the identification information picture by carrying out passage or the ON sphere of the position for the pachinko ball which the game person discharged, a fresh display mode can be offered.

[0190] In the operation form mentioned above, although considered as the composition which consists only of a pachinko game machine 10, as shown in drawing 21, it is good also as considering as the server 80 and composition which the pachinko game machine 10 is connected to a server 80, and can transmit and receive predetermined information. Specifically, a server 80 may generate the **** image data mentioned above, and may supply the image data to the pachinko game machine 10 which is a terminal unit, and the pachinko game machine 10 which received image data may display [server] a picture based on the image data. Of course, based on the image display signal supplied from a server 80, the pachinko game machine 10 may choose image data, and may display a picture.

[0191] That is, a server 80 controls the pachinko game machine 10, and has the following functions.

[0192] (A) "after [when a halt indication of the identification information picture by which it is always / aforementioned / indicated by change was given] the time or a halt indication is given, the identification information picture by which it is newly indicated by change always is displayed" — the function controlled like

[0193] (B) "before a pachinko ball carries out passage or the ON sphere of the position, the production whose character performs operation which is going to indicate by halt the identification information picture by which it is indicated [aforementioned] by change in the aforementioned display from from is displayed" — the function controlled like

[0194] (C) The function controlled like "to report great success reliability according to the number of the identification information pictures by which it is always [aforementioned] indicated by change."

[0195] (D) the "aforementioned identification information picture is indicated by halt in" the mode according to the fluctuation velocity of two or more aforementioned

identification information pictures by which it is always indicated by change — the function controlled like

[0196] (E) “while the game person is performing the game, the aforementioned identification information picture always indicates by change and the game person is not performing the game, that a change indication of the aforementioned identification information picture is given makes it stop” — the function controlled like

[0197] (F) “while the game person is not performing the game, the picture which shows that it is in a vacancy state is displayed” — the function controlled like

[0198] (G) The function controlled like “to judge whether the game person is performing the game in the pachinko game machine concerned by whether the game person contacted the aforementioned touch sensor.”

[0199] Thus, the same operation and same effect as the thing in the pachinko game machine 10 mentioned above also as composition whose server 80 controls the pachinko game machine 10 can be acquired.

[0200] Furthermore, as a terminal unit connected to the server 80, even if it uses a personal computer, a cellular phone, etc., the server 80 can acquire the same operation and the same effect satisfactory again by transmitting the data in which the image data for making it display and its image data are shown to a terminal unit.

[0201] Moreover, in the operation gestalt mentioned above, a halt indication of the identification information picture by which it was indicated by change is given in a position other than the position by which it was indicated by change, and while displaying that the identification information picture by which it was indicated by halt scrolls and disappears out of a screen “What is necessary is just to display the identification information picture by which it is newly indicated by change always by the option, after [in which the identification information picture by which it is always / aforementioned / indicated by change indicated by halt] giving the time or a halt indication, although it made it display that a new identification information picture scrolled and appeared from the outside of a screen.”

[0202] For example, although indicated by halt in position where the position by which it was indicated by change is another, the identification information picture by which it was indicated by change Even if indicated by halt in the position by which it was indicated by change, specifically satisfactory While displaying that it is indicated by halt, and the identification information picture by which it was indicated by halt scrolls and disappears out of a screen in the position as the position by which it was indicated by change where the identification information picture by which it was indicated by change is the same You may perform production with which a new identification information picture is displayed to scroll and appear from the outside of a screen.

[0203] While the new identification information picture by which it is indicated by change scrolls, even if it does not appear from the outside of a screen, moreover, specifically satisfactory As shown in drawing 22 , the identification information

picture by which it was indicated by change moves to the position by which it was indicated by change, and a different position, and in the case where it is indicated by halt When the identification information picture by which it was indicated by change moves to the position by which it was indicated by change, and a different position, you may perform production displayed that a new identification information picture appears from behind the identification information picture by which it was indicated by change.

[0204] Of course, when the identification information picture by which a change display or a halt indication was given moves, it is good not to be what moves linearly, and what moves aslant may move, rocking.

[0205] Moreover, in the operation gestalt mentioned above, although carried out by the existence of contact, when [to a touch sensor 29] a game person supports the discharge handle 26 and rotation operation is carried out in the direction of a clockwise rotation, you may make a judgment whether in the pachinko game machine 10, the game person is performing the game by the existence of the power to the discharge motor 28 supplied according to the angle of rotation.

[0206]

[Effect of the Invention] According to this invention, while the game person is not performing the game, possibility of becoming easy to look for the pachinko game machine in a vacancy state arises out of the pachinko game machine which has those who are going to play the game of a change indication of the identification information picture always being given by making it stop in an amusement center.

[0207] Moreover, while the game person is not performing the game, when this pachinko game machine is among a non-game for those who are going to play a game by displaying the picture which shows that this pachinko game machine is in a vacancy state, possibility that it will be appealing to a game person that there is this pachinko game machine waiting arises.

[0208] Furthermore, possibility that an above-mentioned effect of the invention can be obtained arises by judging whether the game person is performing the game by whether the game person contacted the touch sensor again, without making operation special to a game person perform.

[Translation done.]

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3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the front view showing a general view of the pachinko game machine by this invention.

[Drawing 2] It is the expansion front view of the game face of a board of the pachinko game machine by this invention.

[Drawing 3] It is the block diagram showing the main-control circuit of the pachinko game machine which is the example of this invention.

[Drawing 4] It is the schematic diagram showing the record method of the lottery result of the pachinko game machine by this invention.

[Drawing 5] It is the block diagram showing the display controller of the pachinko game machine which is the example of this invention.

[Drawing 6] It is the schematic diagram showing the concept of arrangement of the image data in the Video RAM of a display controller.

[Drawing 7] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 8] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 9] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 10] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 11] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 12] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 13] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Drawing 14] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 15] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 16] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 17] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 18] It is drawing showing the flow chart of the control processing

performed in a pachinko game machine.

[Drawing 19] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 20] It is drawing showing the flow chart of the control processing performed in a pachinko game machine.

[Drawing 21] It is drawing showing the outline at the time of considering as the composition to which the server and the pachinko game machine were connected through the network.

[Drawing 22] It is the schematic diagram showing the screen display of the pachinko game machine by this invention.

[Description of Notations]

10 Pachinko Game Machine

26 Discharge Handle

32 Display

42 Sphere Detection Sensor

44 Starting Mouth

60 Main-Control Circuit

62 72,202 Interface-circuitry group

64,204 Input/output bus

65 Random-Number-Generation Section

66,206 CPU

68,208 ROM

70,210 RAM

80 Server

200 Display Controller

212 VDP

214 Video RAM

216 ROM for Image Data

[Translation done.]

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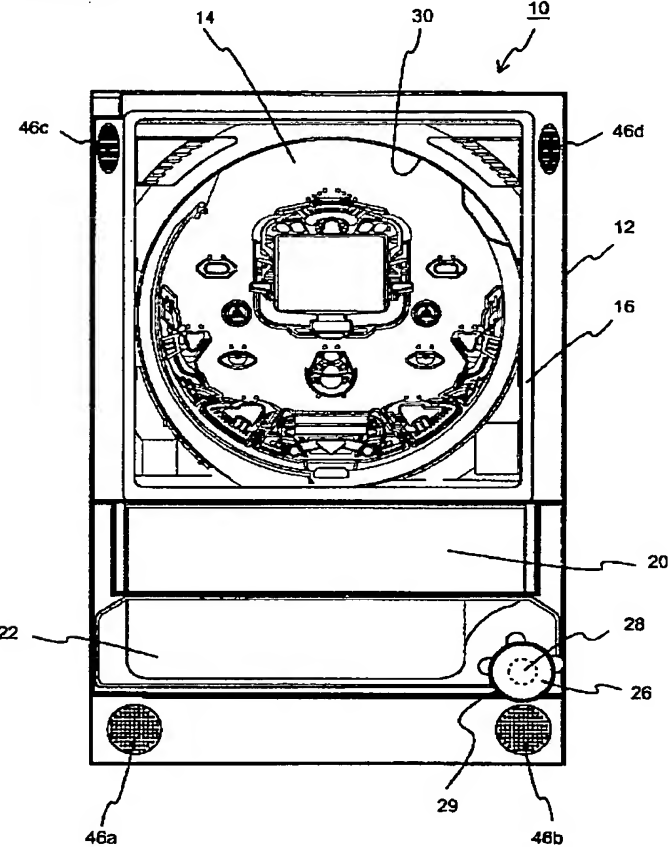
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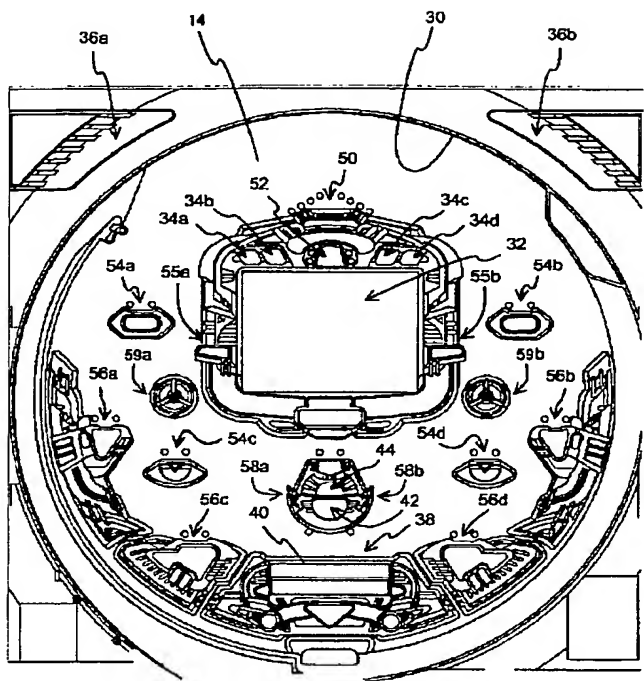
3.In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]



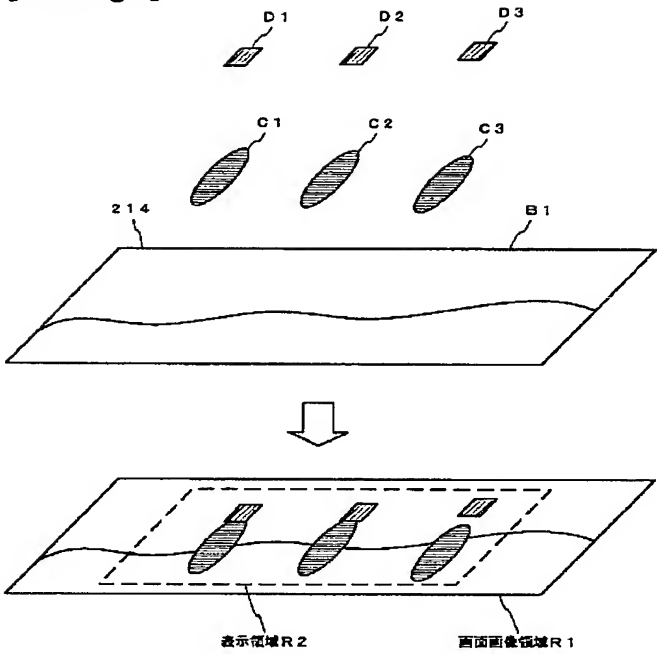
[Drawing 2]



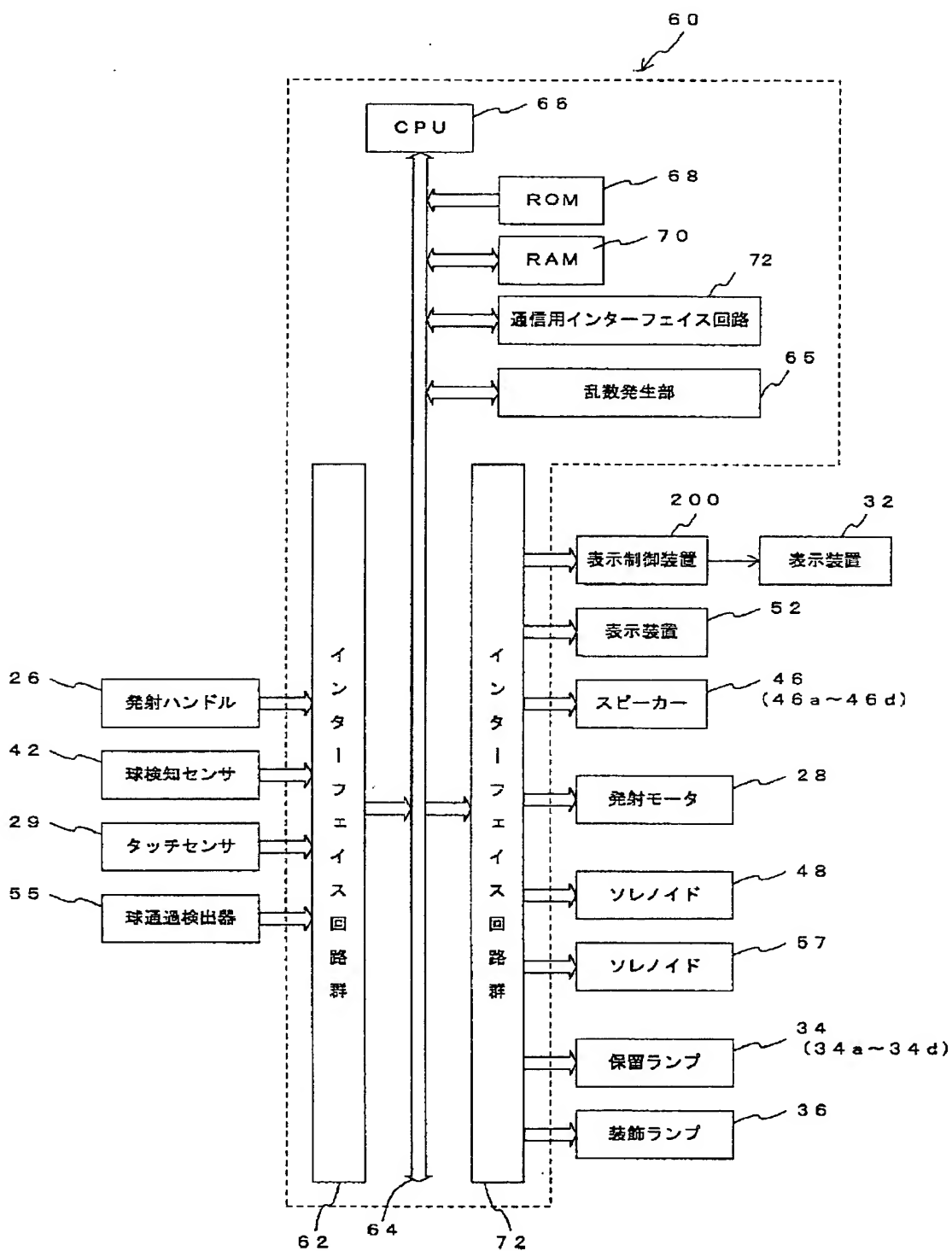
[Drawing 4]

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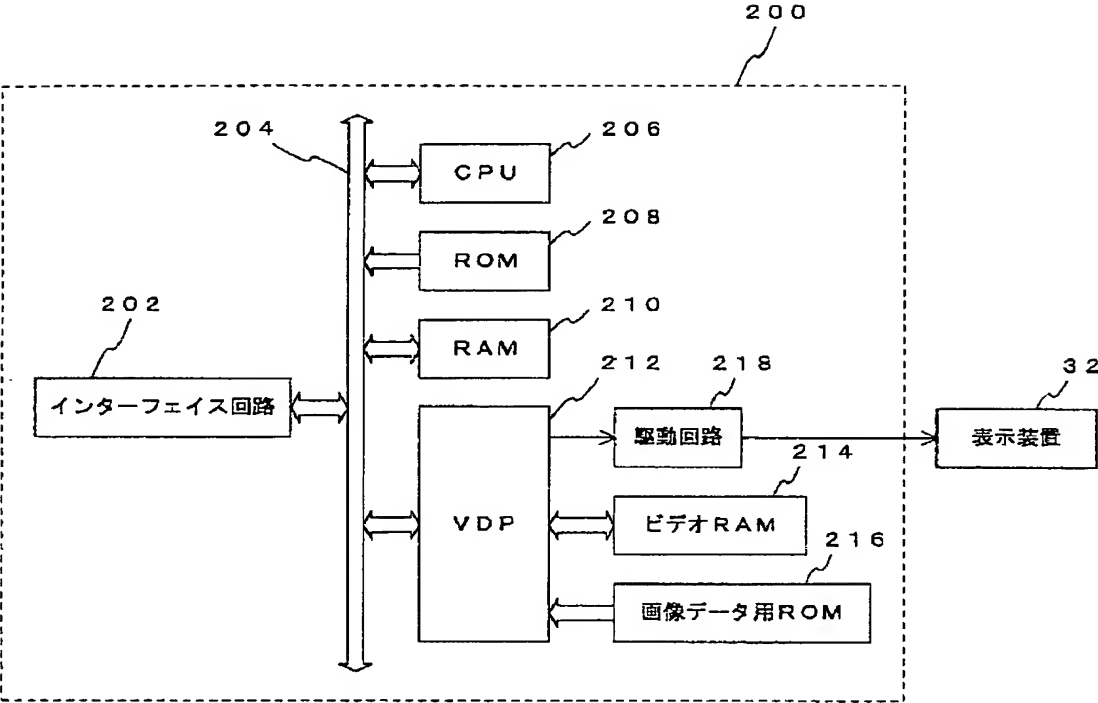
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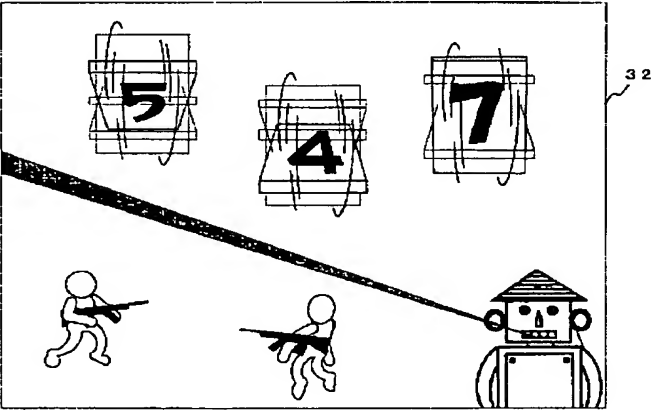
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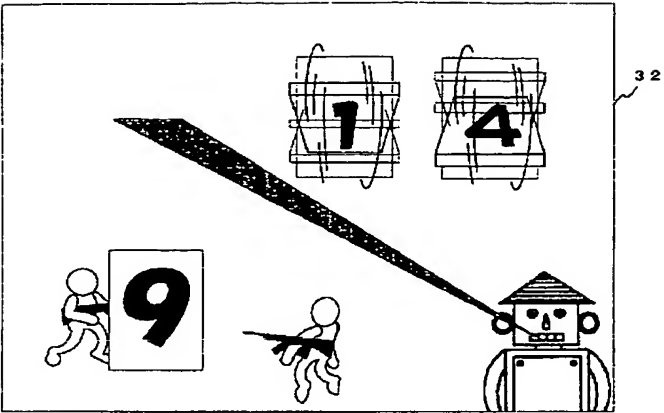
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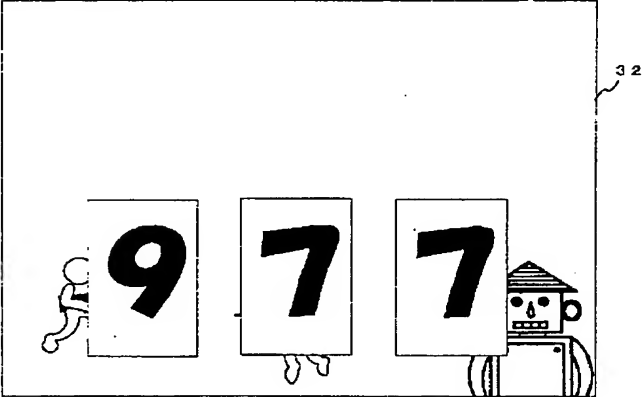
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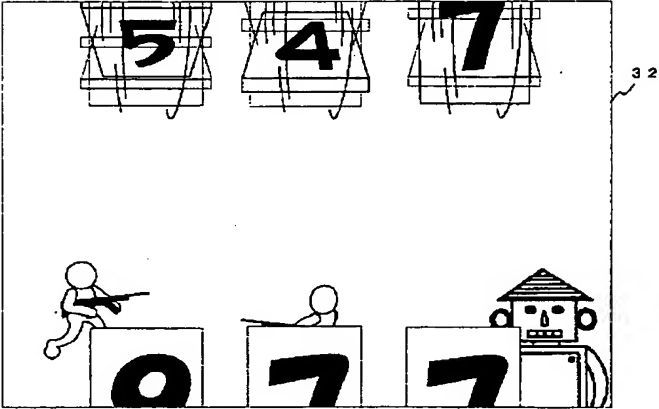
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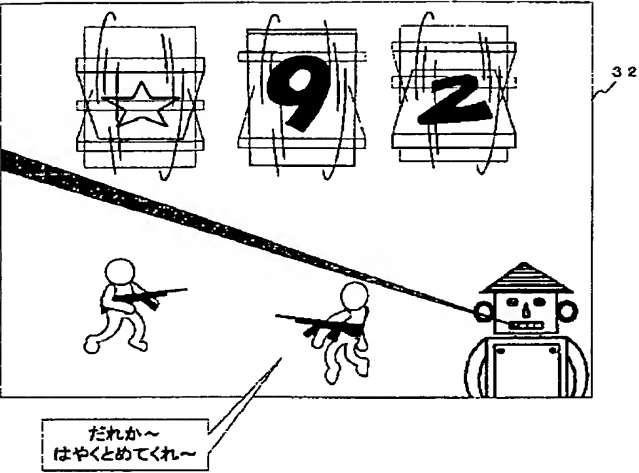
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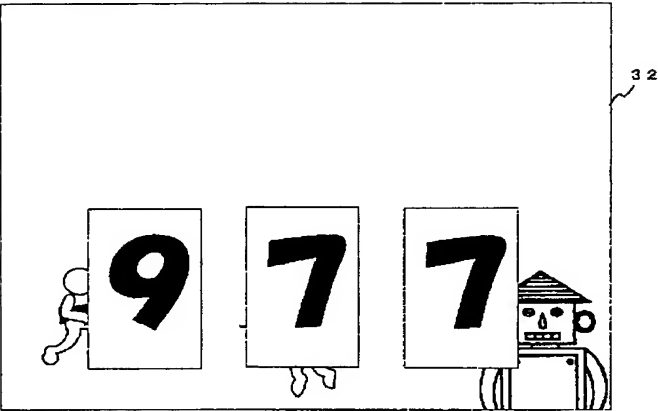
[Drawing 10]



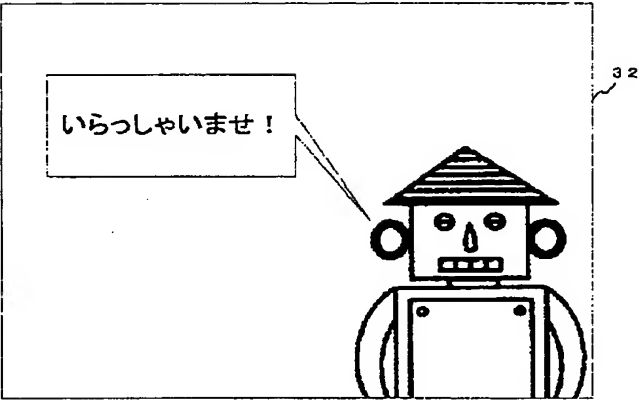
[Drawing 11]



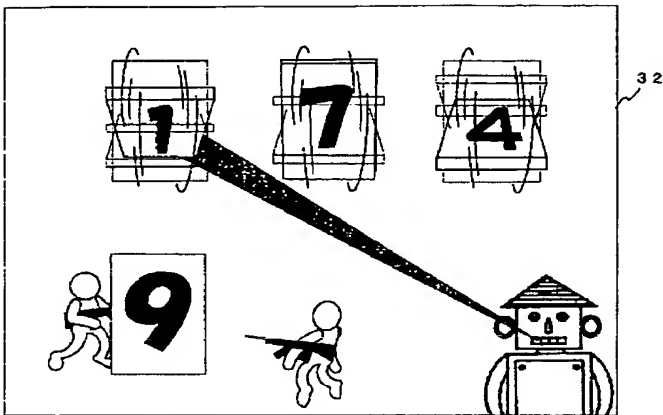
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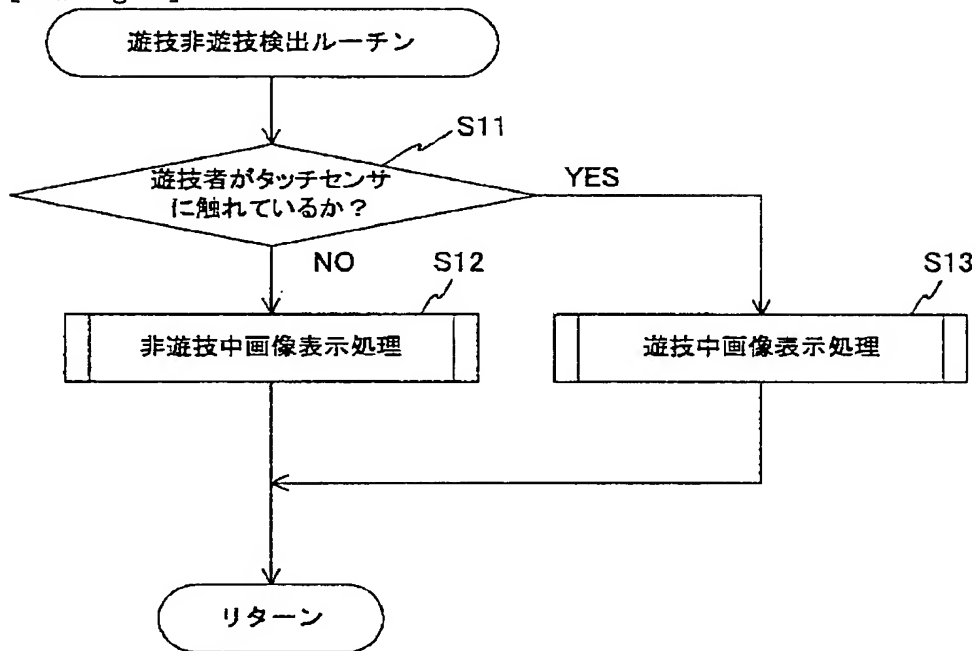
[Drawing 13]



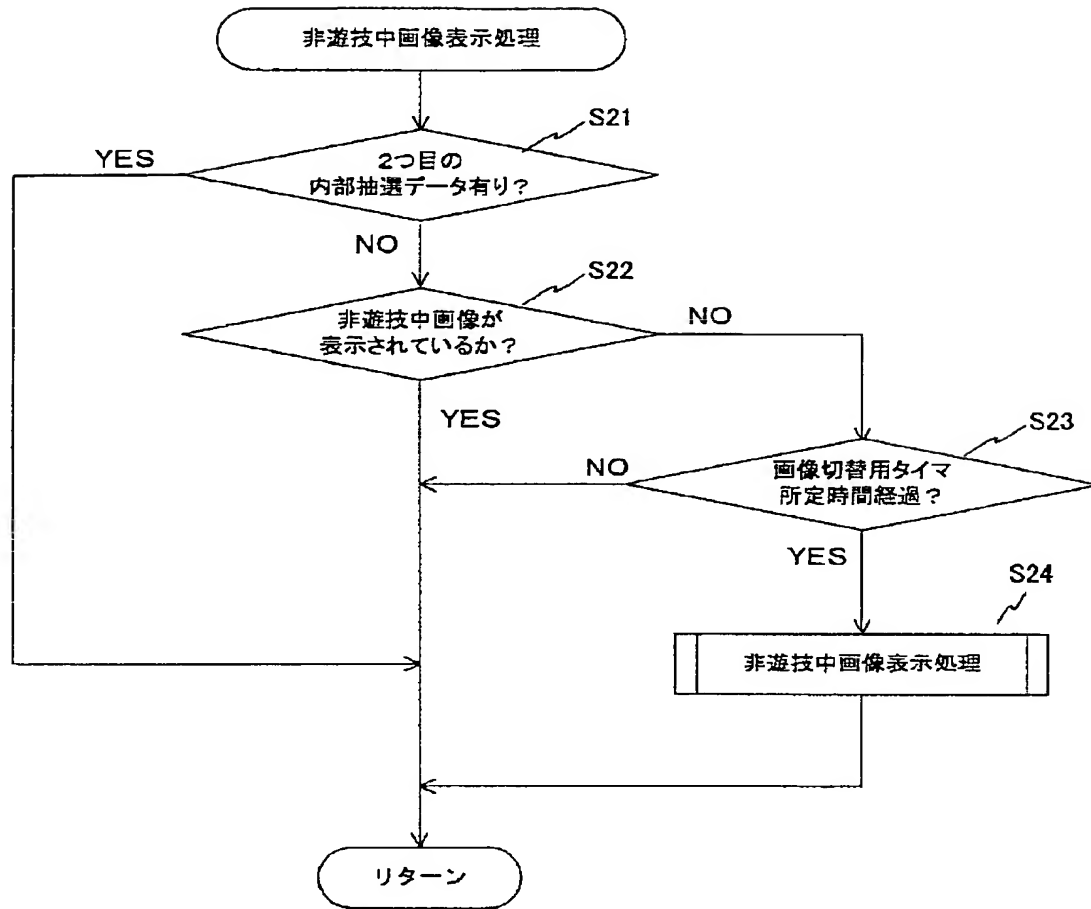
[Drawing 22]



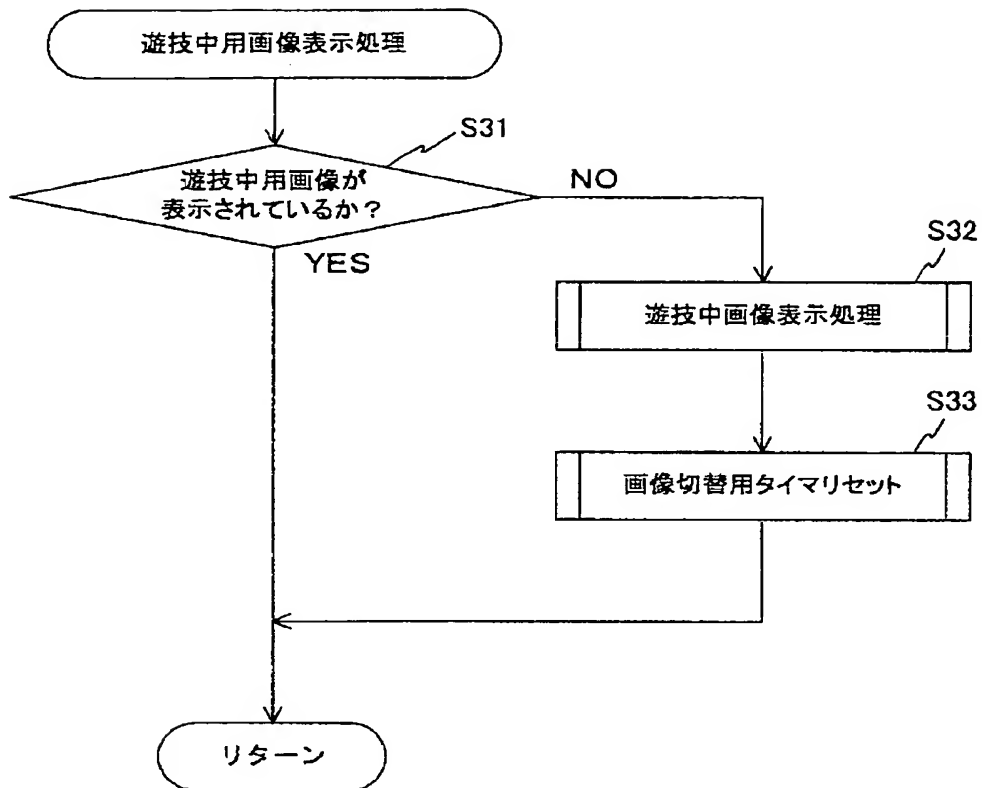
[Drawing 14]



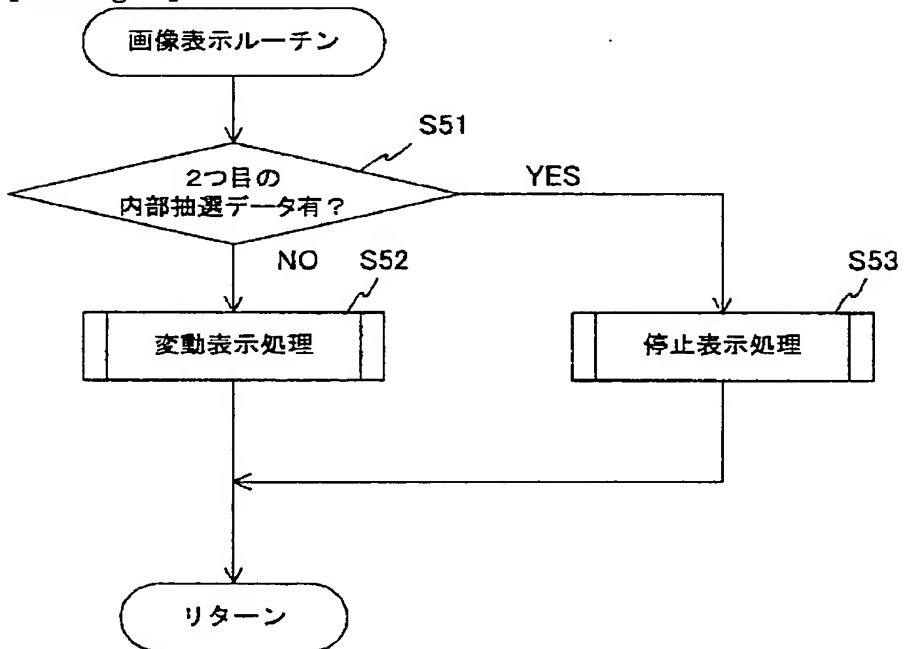
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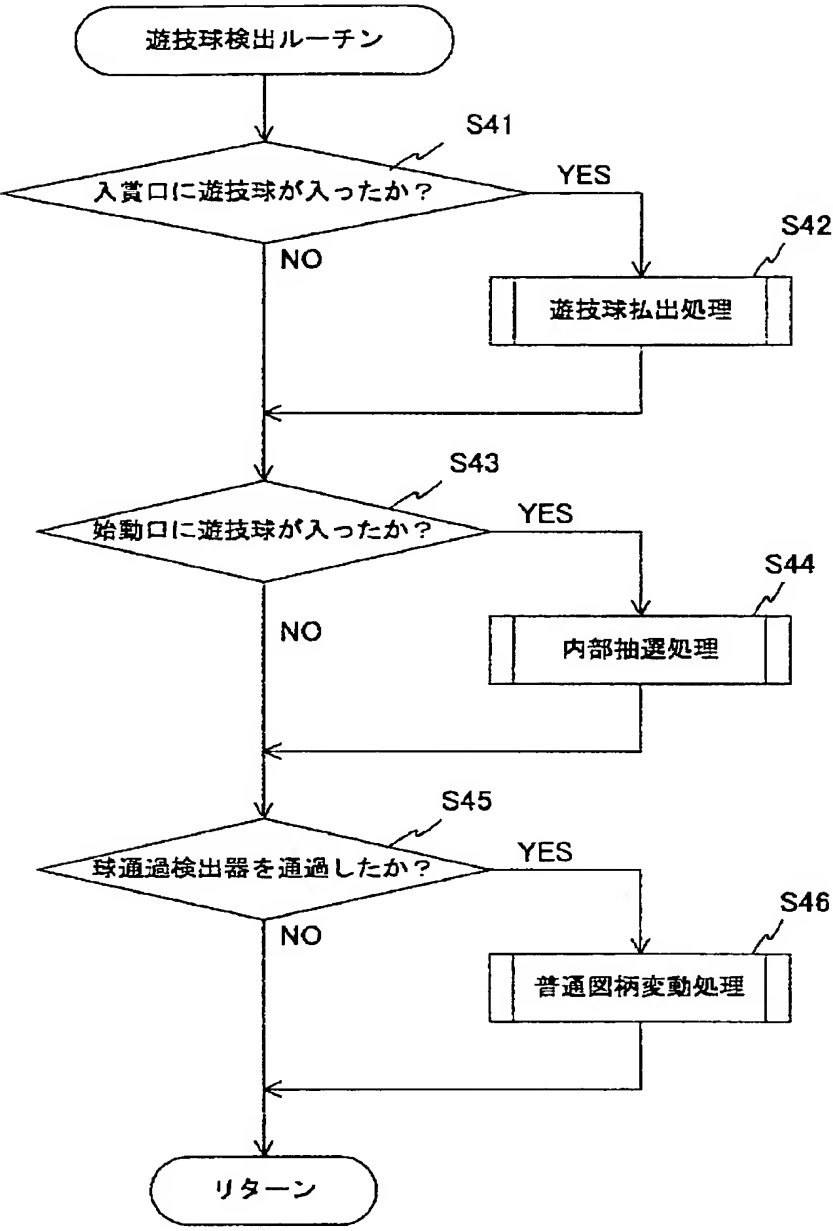
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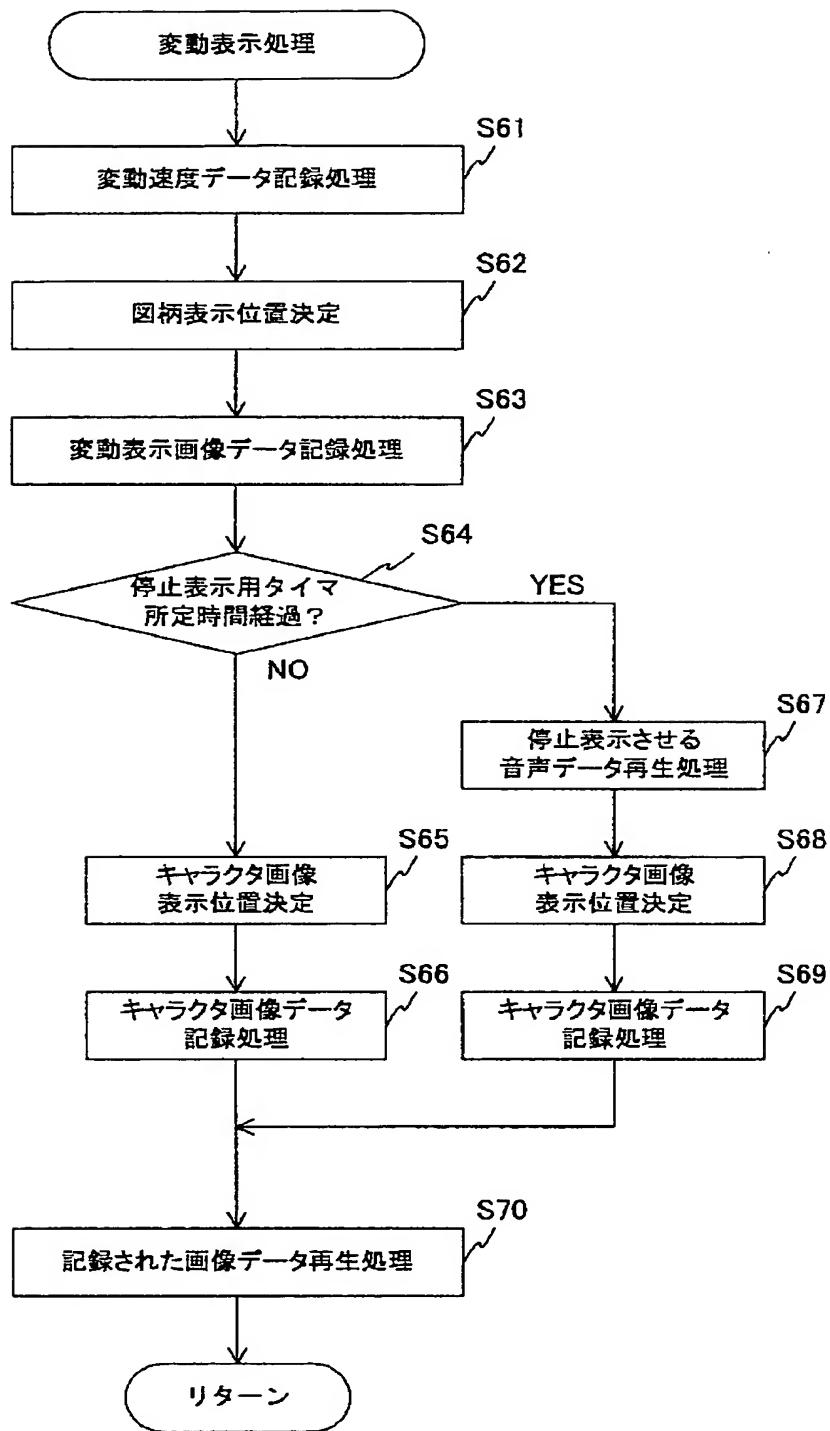
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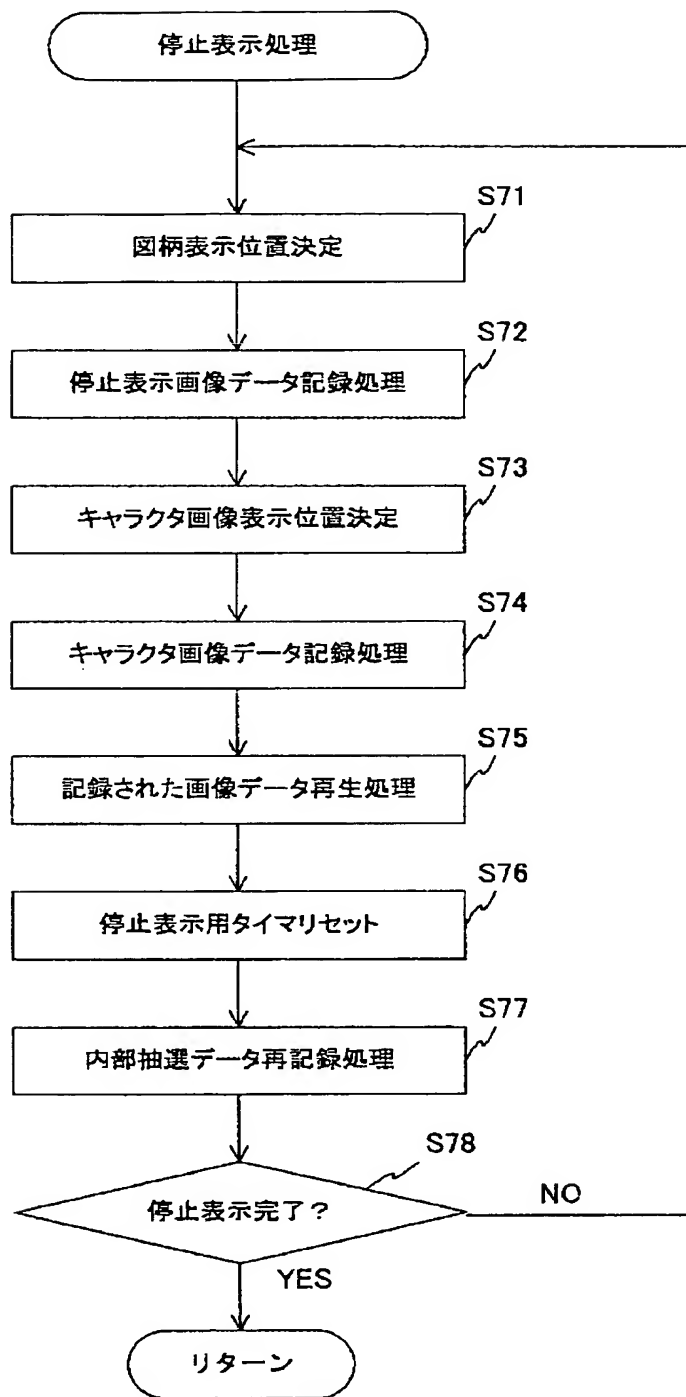
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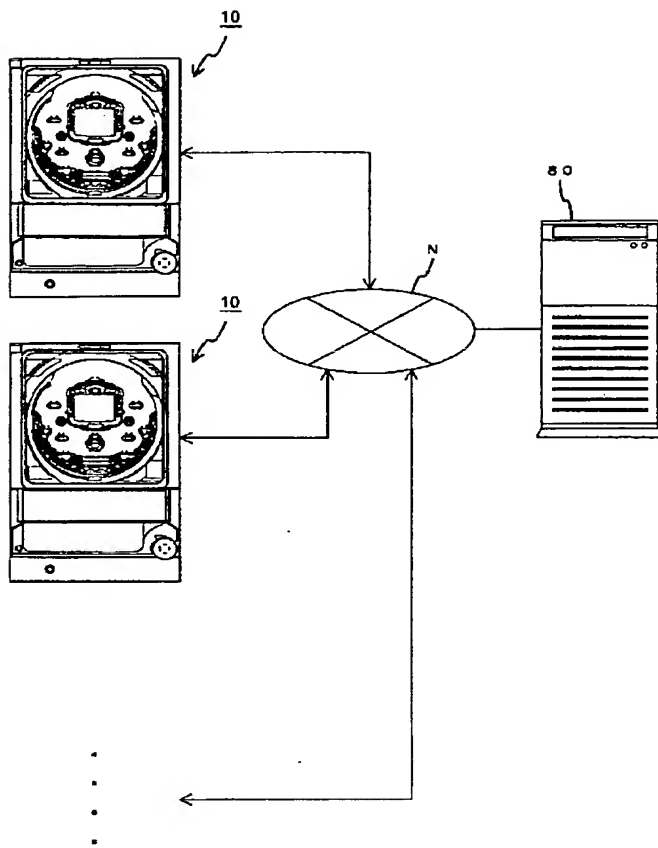
[Drawing 19]



[Drawing 20]



[Drawing 21]



[Translation done.]